FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 0 DÍAS (SIN)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
1	M4-0S	0	0.5	128	0.005	214.85	82.88	0 *	0 *	-
2	M4-0S	0	1	120	0.007	201.43	72.84	0 *	0.59	-
3	M4-0S	0	1.5	120	0.008	201.43	72.84	0 *	0.61	-
4	M4-0S	0	2	120	0.008	201.43	72.84	0 *	0.71	-
5	M4-0S	0	4	100	0.016	167.85	50.59	0 *	6.66	7.32
6	M4-0S	0	5	96	0.021	161.14	46.62	0 *	4.65	7.69
7	M4-0S	0	6	90	0.025	151.07	40.97	0 *	7.35	7.05
8	M4-0S	0	7	86	0.029	144.35	37.41	0 *	10.2	11.63
9	M4-0S	0	8	82	0.035	137.64	34.01	0 *	8.15	9.06
10	M4-0S	0	10	74	0.041	124.21	27.7	0 *	11.58	12.17
11	M4-0S	50	0.5	128	0.005	214.85	82.88	0 *	0.05	-
12	M4-0S	50	1	120	0.007	201.43	72.84	0 *	1.03	-
13	M4-0S	50	1.5	120	0.008	201.43	72.84	0 *	0.98	-
14	M4-0S	50	2	120	0.007	201.43	72.84	0 *	1.77	-
15	M4-0S	50	4	100	0.015	167.85	50.59	0 *	6.78	7.52
16	M4-0S	50	5	94	0.02	157.78	44.7	0 *	7.38	8.66
17	M4-0S	50	6	90	0.024	151.07	40.97	0 *	7.68	8.63
18	M4-0S	50	7	86	0.028	144.35	37.41	0 *	10.63	11.45
19	M4-0S	50	8	82	0.034	137.64	34.01	0 *	10.18	10.92
20	M4-0S	50	10	76	0.042	127.57	29.22	0 *	11.56	12.25
21	M4-0S	100	0.5	128	0.005	214.85	82.88	0 *	0.07	-
22	M4-0S	100	1	120	0.007	201.43	72.84	0 *	0.94	-
23	M4-0S	100	1.5	120	0.008	201.43	72.84	0 *	1.21	-
24	M4-0S	100	2	120	0.008	201.43	72.84	0 *	1.23	-
25	M4-0S	100	4	100	0.015	167.85	50.59	0 *	7.33	7.52
26	M4-0S	100	5	96	0.02	161.14	46.62	0 *	7.28	8.33
27	M4-0S	100	6	90	0.024	151.07	40.97	0 *	7.71	8.4
28	M4-0S	100	7	82	0.027	137.64	34.01	0 *	12.39	14.05
29	M4-0S	100	8	80	0.032	134.28	32.37	0 *	11.79	12.15
30	M4-0S	100	10	76	0.042	127.57	29.22	0 *	11.73	12.13
31	M4-0S	150	0.5	128	0.006	214.85	82.88	0 *	0.05	-
32	M4-0S	150	1	120	0.007	201.43	72.84	0 *	0.75	-
33	M4-0S	150	1.5	120	0.008	201.43	72.84	0 *	0.7	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (SIN)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
34	M4-0S	150	2	120	0.008	201.43	72.84	0 *	0.9	-
35	M4-0S	150	4	104	0.014	174.57	54.71	0 *	6.81	7.52
36	M4-0S	150	5	96	0.021	161.14	46.62	0 *	6.52	7.3
37	M4-0S	150	6	92	0.024	154.43	42.82	0 *	7.2	7.89
38	M4-0S	150	7	90	0.028	151.07	40.97	0 *	9.35	10.2
39	M4-0S	150	8	82	0.033	137.64	34.01	0 *	10.75	12.53
40	M4-0S	150	10	82	0.041	137.64	34.01	0 *	11.31	12.72
41	M4-0S	200	0.5	128	0.006	214.85	82.88	0 *	0.06	-
42	M4-0S	200	1	128	0.006	214.85	82.88	0 *	0.14	-
43	M4-0S	200	1.5	120	0.008	201.43	72.84	0 *	0.95	-
44	M4-0S	200	2	120	0.008	201.43	72.84	0 *	0.82	-
45	M4-0S	200	4	104	0.014	174.57	54.71	0 *	6.74	7.52
46	M4-0S	200	5	96	0.021	161.14	46.62	0 *	6.54	7.48
47	M4-0S	200	6	92	0.024	154.43	42.82	0 *	7.11	7.71
48	M4-0S	200	7	90	0.028	151.07	40.97	0 *	9.36	10.1
49	M4-0S	200	8	82	0.033	137.64	34.01	0 *	11.96	12.53
50	M4-0S	200	10	82	0.041	137.64	34.01	0 *	11.34	11.79
51	M4-0S	400	0.5	128	0.006	214.85	82.88	0 *	0.1	-
52	M4-0S	400	1	128	0.01	214.85	82.88	0 *	0.03	-
53	M4-0S	400	1.5	128	0.01	214.85	82.88	0 *	0.08	-
54	M4-0S	400	2	120	0.01	201.43	72.84	0 *	0.57	-
55	M4-0S	400	4	110	0.017	184.64	61.21	0 *	3.81	4.52
56	M4-0S	400	5	104	0.019	174.57	54.71	0 *	7.03	8.51
57	M4-0S	400	6	96	0.027	161.14	46.62	0 *	3.91	4.66
58	M4-0S	400	7	92	0.029	154.43	42.82	0 *	6.34	7.14
59	M4-0S	400	8	88	0.034	147.71	39.17	0 *	8.98	9.73
60	M4-0S	400	10	82	0.044	137.64	34.01	0 *	8.08	8.75
61	M5-0S	0	0.5	128	0.006	217.16	83.68	0 *	0.03	-
62	M5-0S	0	1	96	0.008	162.87	47.07	0 *	3.68	-
63	M5-0S	0	1.5	100	0.009	169.66	51.08	0 *	3.83	-
64	M5-0S	0	2	100	0.01	169.66	51.08	0 *	6.19	-
65	M5-0S	0	4	76	0.023	128.94	29.5	0 *	7.42	8.17
66	M5-0S	0	5	72	0.029	122.15	26.48	0 *	10.64	11.74

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 0 DÍAS (SIN)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
67	M5-0S	0	6	66	0.039	111.97	22.25	0 *	7.89	8.56
68	M5-0S	0	7	60	0.045	101.79	18.39	0 *	10.84	11.35
69	M5-0S	0	8	56	0.051	95.01	16.02	0 *	13.07	13.72
70	M5-0S	0	10	44	0.068	74.65	9.89	0 *	23.78	15.02
71	M5-0S	50	0.5	104	0.004	176.44	55.24	0 *	3.53	-
72	M5-0S	50	1	100	0.006	169.66	51.08	0 *	7.09	-
73	M5-0S	50	1.5	98	0.008	166.26	49.05	0 *	3.2	-
74	M5-0S	50	2	94	0.01	159.48	45.13	0 *	4.83	-
75	M5-0S	50	4	82	0.022	139.12	34.34	0 *	5.63	6.26
76	M5-0S	50	5	72	0.028	122.15	26.48	0 *	10.25	11.08
77	M5-0S	50	6	70	0.032	118.76	25.03	0 *	11.25	11.93
78	M5-0S	50	7	62	0.04	105.19	19.63	0 *	12.28	13.62
79	M5-0S	50	8	60	0.047	101.79	18.39	0 *	12.25	12.91
80	M5-0S	50	10	54	0.064	91.61	14.89	0 *	16.04	17.01
81	M5-0S	100	0.5	104	0.005	176.44	55.24	0 *	1.96	-
82	M5-0S	100	1	100	0.006	169.66	51.08	0 *	1.89	-
83	M5-0S	100	1.5	100	0.008	169.66	51.08	0 *	3.05	-
84	M5-0S	100	2	100	0.01	169.66	51.08	0 *	4.73	-
85	M5-0S	100	4	82	0.021	139.12	34.34	0 *	6.21	6.83
86	M5-0S	100	5	74	0.025	125.55	27.97	0 *	11.94	13.27
87	M5-0S	100	6	64	0.029	108.58	20.92	0 *	15.31	15.85
88	M5-0S	100	7	62	0.037	105.19	19.63	0 *	15.65	15.25
89	M5-0S	100	8	60	0.045	101.79	18.39	0 *	14.94	15.23
90	M5-0S	100	10	56	0.062	95.01	16.02	0 *	15.8	17.11
91	M5-0S	150	0.5	110	0.005	186.62	61.8	0 *	3.46	-
92	M5-0S	150	1	110	0.006	186.62	61.8	0 *	3.16	-
93	M5-0S	150	1.5	100	0.008	169.66	51.08	0 *	2.86	-
94	M5-0S	150	2	94	0.01	159.48	45.13	0 *	4.58	-
95	M5-0S	150	4	82	0.021	139.12	34.34	0 *	5.74	6.32
96	M5-0S	150	5	74	0.025	125.55	27.97	0 *	9.61	8.84
97	M5-0S	150	6	64	0.028	108.58	20.92	0 *	15.92	16.47
98	M5-0S	150	7	62	0.039	105.19	19.63	0 *	14.04	14.63
99	M5-0S	150	8	60	0.046	101.79	18.39	0 *	14.41	14.93

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (SIN)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
100	M5-0S	150	10	56	0.064	95.01	16.02	0 *	14.88	15.99
101	M5-0S	200	0.5	120	0.005	203.59	73.55	0 *	0.08	-
102	M5-0S	200	1	110	0.006	186.62	61.8	0 *	3.16	-
103	M5-0S	200	1.5	100	0.008	169.66	51.08	0 *	2.54	-
104	M5-0S	200	2	94	0.01	159.48	45.13	0 *	4.29	-
105	M5-0S	200	4	82	0.021	139.12	34.34	0 *	5.51	5.85
106	M5-0S	200	5	74	0.024	125.55	27.97	0 *	10.65	10.82
107	M5-0S	200	6	72	0.029	122.15	26.48	0 *	11.13	12.27
108	M5-0S	200	7	62	0.038	105.19	19.63	0 *	14.42	14.5
109	M5-0S	200	8	60	0.047	101.79	18.39	0 *	13.74	14.21
110	M5-0S	200	10	56	0.064	95.01	16.02	0 *	14.69	15.32
111	M5-0S	400	0.5	120	0.006	203.59	73.55	0 *	0.18	-
112	M5-0S	400	1	120	0.007	203.59	73.55	0 *	0.29	-
113	M5-0S	400	1.5	110	0.008	186.62	61.8	0 *	3.03	-
114	M5-0S	400	2	104	0.009	176.44	55.24	0 *	3.72	-
115	M5-0S	400	4	90	0.018	152.69	41.37	0 *	6.07	7
116	M5-0S	400	5	84	0.024	142.51	36.04	0 *	8.91	9.85
117	M5-0S	400	6	78	0.031	132.33	31.07	0 *	9.88	9.41
118	M5-0S	400	7	72	0.036	122.15	26.48	0 *	8.39	9.28
119	M5-0S	400	8	62	0.041	105.19	19.63	0 *	15.79	15.73
120	M5-0S	400	10	58	0.062	98.4	17.18	0 *	12.71	13.22

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
1	M1-0C	0	0.5	126	0.003	208.9	79.63	0 *	2.28	-
2	M1-0C	0	1	124	0.004	205.59	77.12	0 *	4.37	-
3	M1-0C	0	1.5	118	0.005	195.64	69.84	0 *	5.93	-
4	M1-0C	0	2	112	0.007	185.69	62.92	0 *	6.43	-
5	M1-0C	0	4	96	0.014	159.16	46.22	0 *	8.65	9.17
6	M1-0C	0	5	88	0.022	145.9	38.84	0 *	7.93	8.33
7	M1-0C	0	6	84	0.025	139.27	35.39	0 *	10.04	10.3
8	M1-0C	0	7	78	0.029	129.32	30.52	0 *	11.68	12.13
9	M1-0C	0	8	74	0.033	122.69	27.47	0 *	14.02	14.56
10	M1-0C	0	10	62	0.045	102.79	19.28	0 *	17.5	22.16
11	M1-0C	50	0.5	130	0.003	215.53	84.77	0 *	1.17	-
12	M1-0C	50	1	126	0.004	208.9	79.63	0 *	2.43	-
13	M1-0C	50	1.5	126	0.005	208.9	79.63	0 *	2.12	-
14	M1-0C	50	2	118	0.006	195.64	69.84	0 *	6.06	-
15	M1-0C	50	4	102	0.014	169.11	52.18	0 *	7.69	8.7
16	M1-0C	50	5	90	0.018	149.22	40.63	0 *	11.22	10.23
17	M1-0C	50	6	88	0.022	145.9	38.84	0 *	11.59	12.91
18	M1-0C	50	7	80	0.026	132.64	32.1	0 *	12.9	13.94
19	M1-0C	50	8	78	0.032	129.32	30.52	0 *	12.52	13.86
20	M1-0C	50	10	72	0.042	119.37	26	0 *	16.02	16.53
21	M1-0C	100	0.5	130	0.003	215.53	84.77	0 *	1.19	-
22	M1-0C	100	1	124	0.004	205.59	77.12	0 *	2.16	-
23	M1-0C	100	1.5	126	0.005	208.9	79.63	0 *	2.16	-
24	M1-0C	100	2	116	0.006	192.32	67.49	0 *	5.52	-
25	M1-0C	100	4	102	0.014	169.11	52.18	0 *	7.63	8.63
26	M1-0C	100	5	90	0.017	149.22	40.63	0 *	11.25	12.12
27	M1-0C	100	6	88	0.022	145.9	38.84	0 *	11.55	12.63
28	M1-0C	100	7	84	0.026	139.27	35.39	0 *	12.59	12.82
29	M1-0C	100	8	78	0.032	129.32	30.52	0 *	12.12	13.03
30	M1-0C	100	10	72	0.044	119.37	26	0 *	14.61	15.97
31	M1-0C	150	0.5	136	0.003	225.48	92.77	0 *	1.02	-
32	M1-0C	150	1	126	0.004	208.9	79.63	0 *	2.06	-
33	M1-0C	150	1.5	126	0.005	208.9	79.63	0 *	2.11	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
34	M1-0C	150	2	124	0.006	205.59	77.12	0 *	5.23	-
35	M1-0C	150	4	102	0.014	169.11	52.18	0 *	8.63	7.99
36	M1-0C	150	5	92	0.017	152.53	42.45	0 *	11.33	12.31
37	M1-0C	150	6	88	0.022	145.9	38.84	0 *	10.97	12.15
38	M1-0C	150	7	84	0.026	139.27	35.39	0 *	12.04	12.68
39	M1-0C	150	8	82	0.032	135.95	33.73	0 *	10.79	11.75
40	M1-0C	150	10	74	0.044	122.69	27.47	0 *	13.66	14.45
41	M1-0C	200	0.5	136	0.003	225.48	92.77	0 *	1.14	-
42	M1-0C	200	1	126	0.004	208.9	79.63	0 *	1.97	-
43	M1-0C	200	1.5	126	0.005	208.9	79.63	0 *	2.14	-
44	M1-0C	200	2	124	0.006	205.59	77.12	0 *	4.2	-
45	M1-0C	200	4	102	0.014	169.11	52.18	0 *	8.8	7.78
46	M1-0C	200	5	92	0.017	152.53	42.45	0 *	12.74	11.95
47	M1-0C	200	6	88	0.022	145.9	38.84	0 *	11.18	12.15
48	M1-0C	200	7	84	0.026	139.27	35.39	0 *	12.13	12.94
49	M1-0C	200	8	82	0.032	135.95	33.73	0 *	10.77	11.64
50	M1-0C	200	10	74	0.045	122.69	27.47	0 *	13.43	13.97
51	M1-0C	400	0.5	146	0.003	242.06	106.91	0 *	0.04	-
52	M1-0C	400	1	136	0.005	225.48	92.77	0 *	1.34	-
53	M1-0C	400	1.5	138	0.005	228.8	95.52	0 *	4.08	-
54	M1-0C	400	2	130	0.006	215.53	84.77	0 *	1.43	-
55	M1-0C	400	4	112	0.014	185.69	62.92	0 *	6.52	7.26
56	M1-0C	400	5	106	0.018	175.74	56.36	0 *	8.13	8.75
57	M1-0C	400	6	102	0.022	169.11	52.18	0 *	7.77	8.77
58	M1-0C	400	7	92	0.025	152.53	42.45	0 *	10.76	11.58
59	M1-0C	400	8	88	0.03	145.9	38.84	0 *	9.76	10.4
60	M1-0C	400	10	82	0.041	135.95	33.73	0 *	8.57	9.46
61	M2-0C	0	0.5	146	0.005	242.46	106.78	0 *	0 *	-
62	M2-0C	0	1	124	0.006	205.92	77.02	0 *	1.28	-
63	M2-0C	0	1.5	124	0.007	205.92	77.02	0 *	1.09	-
64	M2-0C	0	2	124	0.007	205.92	77.02	0 *	1.09	-
65	M2-0C	0	4	102	0.016	169.39	52.12	0 *	5.48	5.08
66	M2-0C	0	5	88	0.02	146.14	38.79	0 *	10.24	8.75

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
67	M2-0C	0	6	88	0.021	146.14	38.79	0 *	8.42	8.87
68	M2-0C	0	7	78	0.029	129.53	30.48	0 *	13.16	14.74
69	M2-0C	0	8	66	0.041	109.6	21.82	0 *	11.3	11.91
70	M2-0C	0	10	56	0.062	93	15.71	0 *	9.54	10.23
71	M2-0C	50	0.5	140	0.002	232.49	98.18	0 *	4.05	-
72	M2-0C	50	1	134	0.004	222.53	89.95	0 *	5.64	-
73	M2-0C	50	1.5	134	0.004	222.53	89.95	0 *	6.07	-
74	M2-0C	50	2	128	0.006	212.57	82.07	0 *	4.29	-
75	M2-0C	50	4	106	0.014	176.03	56.29	0 *	7.08	7.58
76	M2-0C	50	5	96	0.019	159.42	46.17	0 *	8.86	9.08
77	M2-0C	50	6	88	0.023	146.14	38.79	0 *	10.67	12.13
78	M2-0C	50	7	82	0.027	136.18	33.68	0 *	13.08	13.77
79	M2-0C	50	8	72	0.033	119.57	25.97	0 *	14.05	16.37
80	M2-0C	50	10	62	0.055	102.96	19.26	0 *	7.61	8.37
81	M2-0C	100	0.5	140	0.003	232.49	98.18	0 *	1.15	-
82	M2-0C	100	1	134	0.004	222.53	89.95	0 *	1.13	-
83	M2-0C	100	1.5	134	0.005	222.53	89.95	0 *	4.36	-
84	M2-0C	100	2	128	0.007	212.57	82.07	0 *	0.87	-
85	M2-0C	100	4	106	0.013	176.03	56.29	0 *	8.53	8.98
86	M2-0C	100	5	94	0.017	156.1	44.26	0 *	10.42	10.4
87	M2-0C	100	6	86	0.021	142.82	37.05	0 *	13.47	13.52
88	M2-0C	100	7	82	0.026	136.18	33.68	0 *	14.88	15.85
89	M2-0C	100	8	70	0.033	116.25	24.55	0 *	15.27	16.95
90	M2-0C	100	10	60	0.057	99.64	18.03	0 *	7.93	8.87
91	M2-0C	150	0.5	140	0.004	232.49	98.18	0 *	0.16	-
92	M2-0C	150	1	132	0.004	219.21	87.28	0 *	0.79	-
93	M2-0C	150	1.5	134	0.005	222.53	89.95	0 *	1.45	-
94	M2-0C	150	2	128	0.007	212.57	82.07	0 *	0.48	-
95	M2-0C	150	4	106	0.013	176.03	56.29	0 *	8.28	8.83
96	M2-0C	150	5	96	0.017	159.42	46.17	0 *	10.65	10.67
97	M2-0C	150	6	88	0.02	146.14	38.79	0 *	14.88	13.88
98	M2-0C	150	7	82	0.026	136.18	33.68	0 *	15.37	16.46
99	M2-0C	150	8	70	0.032	116.25	24.55	0 *	17.75	18.63

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
100	M2-0C	150	10	60	0.057	99.64	18.03	0 *	8.25	8.87
101	M2-0C	200	0.5	140	0.003	232.49	98.18	0 *	0.14	-
102	M2-0C	200	1	140	0.005	232.49	98.18	0 *	1.41	-
103	M2-0C	200	1.5	134	0.005	222.53	89.95	0 *	4.29	-
104	M2-0C	200	2	128	0.007	212.57	82.07	0 *	0.52	-
105	M2-0C	200	4	110	0.013	182.67	60.61	0 *	7.14	8.25
106	M2-0C	200	5	96	0.017	159.42	46.17	0 *	10.48	10.93
107	M2-0C	200	6	88	0.019	146.14	38.79	0 *	14.49	14.79
108	M2-0C	200	7	82	0.025	136.18	33.68	0 *	14.78	15.55
109	M2-0C	200	8	70	0.031	116.25	24.55	0 *	18.31	19.06
110	M2-0C	200	10	62	0.056	102.96	19.26	0 *	7.71	8.66
111	M2-0C	400	0.5	150	0.004	249.1	112.71	0 *	1.12	-
112	M2-0C	400	1	140	0.005	232.49	98.18	0 *	1.29	-
113	M2-0C	400	1.5	144	0.005	239.14	103.87	0 *	1.5	-
114	M2-0C	400	2	128	0.006	212.57	82.07	0 *	0.49	-
115	M2-0C	400	4	120	0.013	199.28	72.13	0 *	5.75	6.09
116	M2-0C	400	5	104	0.016	172.71	54.18	0 *	8.4	8.17
117	M2-0C	400	6	94	0.02	156.1	44.26	0 *	11.3	12.23
118	M2-0C	400	7	84	0.024	139.5	35.35	0 *	15.04	13.44
119	M2-0C	400	8	80	0.029	132.85	32.06	0 *	16.5	17.19
120	M2-0C	400	10	64	0.051	106.28	20.52	0 *	7.42	8.3
121	M3-0C	0	0.5	146	0.004	241.49	106.59	0 *	0.26	-
122	M3-0C	0	1	146	0.006	241.49	106.59	0 *	0 *	-
123	M3-0C	0	1.5	146	0.006	241.49	106.59	0 *	0 *	-
124	M3-0C	0	2	146	0.006	241.49	106.59	0 *	0 *	-
125	M3-0C	0	4	124	0.012	205.1	76.89	0 *	3.83	4.44
126	M3-0C	0	5	112	0.016	185.25	62.73	0 *	4.41	5.17
127	M3-0C	0	6	106	0.018	175.33	56.19	0 *	8.17	8.98
128	M3-0C	0	7	102	0.024	168.71	52.03	0 *	5.5	6.2
129	M3-0C	0	8	96	0.026	158.79	46.08	0 *	10.22	10.84
130	M3-0C	0	10	88	0.033	145.56	38.72	0 *	10.59	11.77
131	M3-0C	50	0.5	136	0.004	224.95	92.49	0 *	0 *	-
132	M3-0C	50	1	146	0.006	241.49	106.59	0 *	0.24	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
0 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
133	M3-0C	50	1.5	146	0.007	241.49	106.59	0 *	0.03	-
134	M3-0C	50	2	146	0.008	241.49	106.59	0 *	0 *	-
135	M3-0C	50	4	124	0.012	205.1	76.89	0 *	1.73	2.69
136	M3-0C	50	5	116	0.015	191.87	67.29	0 *	5.68	6.62
137	M3-0C	50	6	112	0.018	185.25	62.73	0 *	4.86	5.56
138	M3-0C	50	7	104	0.02	172.02	54.09	0 *	8.49	9.09
139	M3-0C	50	8	100	0.025	165.4	50.01	0 *	8.44	9.58
140	M3-0C	50	10	94	0.031	155.48	44.18	0 *	11.92	11.54
141	M3-0C	100	0.5	136	0.004	224.95	92.49	0 *	0 *	-
142	M3-0C	100	1	146	0.006	241.49	106.59	0 *	0.24	-
143	M3-0C	100	1.5	146	0.007	241.49	106.59	0 *	0 *	-
144	M3-0C	100	2	146	0.008	241.49	106.59	0 *	0 *	-
145	M3-0C	100	4	124	0.013	205.1	76.89	0 *	1.69	2.48
146	M3-0C	100	5	116	0.015	191.87	67.29	0 *	2.91	3.66
147	M3-0C	100	6	112	0.018	185.25	62.73	0 *	4.83	5.56
148	M3-0C	100	7	104	0.019	172.02	54.09	0 *	8.6	9.39
149	M3-0C	100	8	100	0.024	165.4	50.01	0 *	8.41	9.26
150	M3-0C	100	10	94	0.032	155.48	44.18	0 *	9.92	10.79
151	M3-0C	150	0.5	136	0.004	224.95	92.49	0 *	0 *	-
152	M3-0C	150	1	146	0.006	241.49	106.59	0 *	0.27	-
153	M3-0C	150	1.5	146	0.008	241.49	106.59	0 *	0 *	-
154	M3-0C	150	2	146	0.008	241.49	106.59	0 *	0 *	-
155	M3-0C	150	4	124	0.013	205.1	76.89	0 *	1.6	2.35
156	M3-0C	150	5	116	0.015	191.87	67.29	0 *	2.49	3.01
157	M3-0C	150	6	112	0.018	185.25	62.73	0 *	4.57	5.38
158	M3-0C	150	7	108	0.019	178.64	58.33	0 *	8.08	9.7
159	M3-0C	150	8	100	0.024	165.4	50.01	0 *	7.71	8.61
160	M3-0C	150	10	94	0.032	155.48	44.18	0 *	9.71	10.17
161	M3-0C	200	0.5	136	0.004	224.95	92.49	0 *	0 *	-
162	M3-0C	200	1	146	0.006	241.49	106.59	0 *	0.15	-
163	M3-0C	200	1.5	146	0.008	241.49	106.59	0 *	0 *	-
164	M3-0C	200	2	146	0.008	241.49	106.59	0 *	0 *	-
165	M3-0C	200	4	124	0.013	205.1	76.89	0 *	1.76	2.48

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 0 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
166	M3-0C	200	5	116	0.015	191.87	67.29	0 *	2.91	3.87
167	M3-0C	200	6	112	0.017	185.25	62.73	0 *	4.86	5.76
168	M3-0C	200	7	108	0.019	178.64	58.33	0 *	8.2	9.06
169	M3-0C	200	8	100	0.024	165.4	50.01	0 *	8.2	9.31
170	M3-0C	200	10	94	0.033	155.48	44.18	0 *	9.48	10.52
171	M3-0C	400	0.5	136	0.005	224.95	92.49	0 *	0 *	-
172	M3-0C	400	1	150	0.005	248.11	112.51	0 *	0 *	-
173	M3-0C	400	1.5	156	0.006	258.03	121.69	0 *	0.68	-
174	M3-0C	400	2	156	0.007	258.03	121.69	0 *	0.45	-
175	M3-0C	400	4	146	0.013	241.49	106.59	0 *	0.07	0.89
176	M3-0C	400	5	132	0.015	218.33	87.13	0 *	1.11	1.88
177	M3-0C	400	6	124	0.019	205.1	76.89	0 *	3.58	4.33
178	M3-0C	400	7	116	0.022	191.87	67.29	0 *	3.32	4.07
179	M3-0C	400	8	110	0.025	181.94	60.51	0 *	6.88	7.49
180	M3-0C	400	10	104	0.029	172.02	54.09	0 *	6.28	7.01

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
30 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
1	M1-30	0	0.5	146	0.026	250.72	106.42	0 *	0 *	-
2	M1-30	0	1	146	0.026	250.72	106.42	0 *	0 *	-
3	M1-30	0	1.5	146	0.026	250.72	106.42	0 *	0 *	-
4	M1-30	0	2	132	0.025	226.67	86.99	0 *	0 *	-
5	M1-30	0	4	60	0.027	103.03	17.97	0 *	5.79	6.72
6	M1-30	0	5	56	0.035	96.17	15.66	0 *	8.17	8.72
7	M1-30	0	6	51	0.045	87.58	12.99	0 *	10.75	11.99
8	M1-30	0	7	47	0.053	80.71	11.03	0 *	15.73	16.56
9	M1-30	0	8	39	0.072	66.97	7.59	0 *	20.56	21.33
10	M1-30	0	10	35	0.119	60.1	6.12	0 *	13.57	14.27
11	M1-30	50	0.5	146	0.023	250.72	106.42	0 *	0 *	-
12	M1-30	50	1	146	0.024	250.72	106.42	0 *	0 *	-
13	M1-30	50	1.5	146	0.024	250.72	106.42	0 *	0 *	-
14	M1-30	50	2	132	0.023	226.67	86.99	0 *	0 *	-
15	M1-30	50	4	74	0.027	127.08	27.34	0 *	4.19	5
16	M1-30	50	5	74	0.033	127.08	27.34	0 *	7.94	8.69
17	M1-30	50	6	67	0.041	115.05	22.41	0 *	4.69	5.64
18	M1-30	50	7	60	0.044	103.03	17.97	0 *	8.12	9.24
19	M1-30	50	8	51	0.056	87.58	12.99	0 *	10.08	10.95
20	M1-30	50	10	49	0.074	84.14	11.99	0 *	12.34	13.49
21	M1-30	100	0.5	146	0.022	250.72	106.42	0 *	0 *	-
22	M1-30	100	1	146	0.023	250.72	106.42	0 *	0 *	-
23	M1-30	100	1.5	146	0.023	250.72	106.42	0 *	0 *	-
24	M1-30	100	2	132	0.022	226.67	86.99	0 *	0 *	-
25	M1-30	100	4	132	0.024	226.67	86.99	0 *	0 *	0
26	M1-30	100	5	74	0.032	127.08	27.34	0 *	7.46	8.54
27	M1-30	100	6	67	0.04	115.05	22.41	0 *	5.08	5.88
28	M1-30	100	7	60	0.045	103.03	17.97	0 *	6.45	7.3
29	M1-30	100	8	51	0.058	87.58	12.99	0 *	9.84	10.56
30	M1-30	100	10	47	0.077	80.71	11.03	0 *	12.74	13.31
31	M1-30	150	0.5	146	0.022	250.72	106.42	0 *	0 *	-
32	M1-30	150	1	146	0.023	250.72	106.42	0 *	0 *	-
33	M1-30	150	1.5	146	0.023	250.72	106.42	0 *	0 *	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
30 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
34	M1-30	150	2	132	0.022	226.67	86.99	0 *	0 *	-
35	M1-30	150	4	132	0.024	226.67	86.99	0 *	0 *	0
36	M1-30	150	5	74	0.032	127.08	27.34	0 *	7.6	8.42
37	M1-30	150	6	67	0.04	115.05	22.41	0 *	5.03	5.85
38	M1-30	150	7	60	0.045	103.03	17.97	0 *	7.01	7.85
39	M1-30	150	8	51	0.058	87.58	12.99	0 *	9.95	10.58
40	M1-30	150	10	47	0.083	80.71	11.03	0 *	12.39	13.33
41	M1-30	200	0.5	146	0.022	250.72	106.42	0 *	0 *	-
42	M1-30	200	1	146	0.022	250.72	106.42	0 *	0 *	-
43	M1-30	200	1.5	146	0.022	250.72	106.42	0 *	0 *	-
44	M1-30	200	2	132	0.022	226.67	86.99	0 *	0 *	-
45	M1-30	200	4	132	0.024	226.67	86.99	0 *	0 *	0
46	M1-30	200	5	74	0.031	127.08	27.34	0 *	7.8	8.54
47	M1-30	200	6	67	0.04	115.05	22.41	0 *	4.88	5.68
48	M1-30	200	7	60	0.045	103.03	17.97	0 *	7.04	7.92
49	M1-30	200	8	51	0.059	87.58	12.99	0 *	9.25	10.54
50	M1-30	200	10	46	0.08	78.99	10.56	0 *	13.81	14.56
51	M1-30	400	0.5	146	0.022	250.72	106.42	0 *	0 *	-
52	M1-30	400	1	146	0.022	250.72	106.42	0 *	0 *	-
53	M1-30	400	1.5	146	0.023	250.72	106.42	0 *	0 *	-
54	M1-30	400	2	132	0.022	226.67	86.99	0 *	0 *	-
55	M1-30	400	4	102	0.026	175.16	51.94	0 *	0.87	1.58
56	M1-30	400	5	90	0.028	154.55	40.44	0 *	5.74	6.56
57	M1-30	400	6	83	0.036	142.53	34.39	0 *	5.68	7
58	M1-30	400	7	74	0.043	127.08	27.34	0 *	7.94	9.04
59	M1-30	400	8	60	0.048	103.03	17.97	0 *	6.82	7.94
60	M1-30	400	10	54	0.063	92.73	14.56	0 *	12.49	13.58
61	M2-30	0	0.5	128	0.007	219.89	81.79	0 *	0 *	-
62	M2-30	0	1	128	0.008	219.89	81.79	0 *	0 *	-
63	M2-30	0	1.5	128	0.008	219.89	81.79	0 *	0.02	-
64	M2-30	0	2	128	0.008	219.89	81.79	0 *	0.08	-
65	M2-30	0	4	96	0.017	164.92	46.01	0 *	3.36	4.16
66	M2-30	0	5	86	0.02	147.74	36.92	0 *	9.27	10.24

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
30 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
67	M2-30	0	6	82	0.029	140.87	33.57	0 *	5.64	6.14
68	M2-30	0	7	76	0.033	130.56	28.84	0 *	8.64	9.13
69	M2-30	0	8	70	0.039	120.25	24.46	0 *	10.61	11.58
70	M2-30	0	10	64	0.056	109.94	20.45	0 *	8.3	8.94
71	M2-30	50	0.5	132	0.005	226.76	86.99	0 *	0.64	-
72	M2-30	50	1	128	0.008	219.89	81.79	0 *	0.17	-
73	M2-30	50	1.5	128	0.009	219.89	81.79	0 *	0.17	-
74	M2-30	50	2	128	0.008	219.89	81.79	0 *	0.19	-
75	M2-30	50	4	100	0.017	171.79	49.92	0 *	6.57	7.49
76	M2-30	50	5	96	0.02	164.92	46.01	0 *	7.59	8.51
77	M2-30	50	6	86	0.024	147.74	36.92	0 *	9.7	10.65
78	M2-30	50	7	82	0.031	140.87	33.57	0 *	7.31	7.33
79	M2-30	50	8	76	0.035	130.56	28.84	0 *	9.48	10.67
80	M2-30	50	10	68	0.051	116.82	23.08	0 *	8.81	9.8
81	M2-30	100	0.5	128	0.006	219.89	81.79	0 *	0.15	-
82	M2-30	100	1	128	0.007	219.89	81.79	0 *	0.32	-
83	M2-30	100	1.5	122	0.008	209.58	74.31	0 *	1.65	-
84	M2-30	100	2	120	0.008	206.15	71.89	0 *	2.67	-
85	M2-30	100	4	110	0.014	188.97	60.41	0 *	6.09	7.2
86	M2-30	100	5	100	0.019	171.79	49.92	0 *	7.92	9.28
87	M2-30	100	6	86	0.023	147.74	36.92	0 *	9.73	10.87
88	M2-30	100	7	82	0.032	140.87	33.57	0 *	6.51	6.93
89	M2-30	100	8	76	0.034	130.56	28.84	0 *	10.64	11.68
90	M2-30	100	10	72	0.049	123.69	25.88	0 *	10.03	10.59
91	M2-30	150	0.5	136	0.005	233.63	92.34	0 *	0.84	-
92	M2-30	150	1	128	0.008	219.89	81.79	0 *	0.26	-
93	M2-30	150	1.5	128	0.007	219.89	81.79	0 *	0.46	-
94	M2-30	150	2	120	0.008	206.15	71.89	0 *	2.48	-
95	M2-30	150	4	110	0.015	188.97	60.41	0 *	5.17	6.03
96	M2-30	150	5	100	0.02	171.79	49.92	0 *	6.98	8.37
97	M2-30	150	6	88	0.024	151.17	38.66	0 *	8.84	9.69
98	M2-30	150	7	82	0.033	140.87	33.57	0 *	5.93	6.87
99	M2-30	150	8	76	0.035	130.56	28.84	0 *	10.51	11.5

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 30 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
100	M2-30	150	10	72	0.049	123.69	25.88	0 *	9.77	10.7
101	M2-30	200	0.5	128	0.006	219.89	81.79	0 *	0.17	-
102	M2-30	200	1	128	0.008	219.89	81.79	0 *	0.25	-
103	M2-30	200	1.5	128	0.008	219.89	81.79	0 *	0.44	-
104	M2-30	200	2	120	0.008	206.15	71.89	0 *	2.51	-
105	M2-30	200	4	110	0.015	188.97	60.41	0 *	5.48	6.26
106	M2-30	200	5	100	0.02	171.79	49.92	0 *	7.36	8.33
107	M2-30	200	6	88	0.024	151.17	38.66	0 *	9.03	9.85
108	M2-30	200	7	82	0.034	140.87	33.57	0 *	5.75	6.44
109	M2-30	200	8	76	0.036	130.56	28.84	0 *	10.7	11.27
110	M2-30	200	10	70	0.051	120.25	24.46	0 *	10.18	8.65
111	M2-30	400	0.5	150	0.005	257.68	112.33	0 *	0 *	-
112	M2-30	400	1	144	0.006	247.38	103.52	0 *	0.12	-
113	M2-30	400	1.5	144	0.006	247.38	103.52	0 *	0.13	-
114	M2-30	400	2	136	0.008	233.63	92.34	0 *	0.7	-
115	M2-30	400	4	120	0.014	206.15	71.89	0 *	3.61	4.42
116	M2-30	400	5	102	0.021	175.22	51.94	0 *	6.03	6.37
117	M2-30	400	6	90	0.023	154.61	40.44	0 *	9.43	10.94
118	M2-30	400	7	88	0.029	151.17	38.66	0 *	9.61	10.51
119	M2-30	400	8	86	0.034	147.74	36.92	0 *	10.91	11.98
120	M2-30	400	10	78	0.047	134	30.37	0 *	9.44	10.36

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 60 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
1	M1-60	0	0.5	117	0.017	203.01	72.6	N/A	0 *	-
2	M1-60	0	1	117	0.017	203.01	72.6	0.83	0 *	-
3	M1-60	0	1.5	117	0.016	203.01	72.6	N/A	0 *	-
4	M1-60	0	2	49	0.018	85.02	12.73	10.1	6.12	-
5	M1-60	0	4	-	-	-	-	-	-	-
6	M1-60	0	5	-	-	-	-	-	-	-
7	M1-60	0	6	-	-	-	-	-	-	-
8	M1-60	0	7	-	-	-	-	-	-	-
9	M1-60	0	8	-	-	-	-	-	-	-
10	M1-60	0	10	-	-	-	-	-	-	-
11	M1-60	50	0.5	117	0.017	203.01	72.6	N/A	0 *	-
12	M1-60	50	1	117	0.016	203.01	72.6	N/A	0 *	-
13	M1-60	50	1.5	65	0.017	112.78	22.41	8.44	1.01	-
14	M1-60	50	2	65	0.018	112.78	22.41	8.78	0.97	-
15	M1-60	50	4	-	-	-	-	-	-	-
16	M1-60	50	5	-	-	-	-	-	-	-
17	M1-60	50	6	-	-	-	-	-	-	-
18	M1-60	50	7	-	-	-	-	-	-	-
19	M1-60	50	8	-	-	-	-	-	-	-
20	M1-60	50	10	-	-	-	-	-	-	-
21	M1-60	100	0.5	117	0.017	203.01	72.6	N/A	0 *	-
22	M1-60	100	1	117	0.016	203.01	72.6	N/A	0 *	-
23	M1-60	100	1.5	82	0.017	142.28	35.66	4.48	0 *	-
24	M1-60	100	2	65	0.018	112.78	22.41	9.05	0.97	-
25	M1-60	100	4	-	-	-	-	-	-	-
26	M1-60	100	5	-	-	-	-	-	-	-
27	M1-60	100	6	-	-	-	-	-	-	-
28	M1-60	100	7	-	-	-	-	-	-	-
29	M1-60	100	8	-	-	-	-	-	-	-
30	M1-60	100	10	-	-	-	-	-	-	-
31	M1-60	150	0.5	117	0.017	203.01	72.6	N/A	0 *	-
32	M1-60	150	1	117	0.016	203.01	72.6	N/A	0 *	-
33	M1-60	150	1.5	65	0.017	112.78	22.41	8.47	1.02	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
60 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
34	M1-60	150	2	65	0.018	112.78	22.41	8.91	0.98	-
35	M1-60	150	4	-	-	-	-	-	-	-
36	M1-60	150	5	-	-	-	-	-	-	-
37	M1-60	150	6	-	-	-	-	-	-	-
38	M1-60	150	7	-	-	-	-	-	-	-
39	M1-60	150	8	-	-	-	-	-	-	-
40	M1-60	150	10	-	-	-	-	-	-	-
41	M1-60	200	0.5	117	0.017	203.01	72.6	N/A	0 *	-
42	M1-60	200	1	117	0.016	203.01	72.6	N/A	0 *	-
43	M1-60	200	1.5	82	0.017	142.28	35.66	4.89	0 *	-
44	M1-60	200	2	65	0.018	112.78	22.41	8.61	0.98	-
45	M1-60	200	4	42	0.038	72.87	9.36	16.59	11.04	11.34
46	M1-60	200	5	-	-	-	-	-	-	-
47	M1-60	200	6	-	-	-	-	-	-	-
48	M1-60	200	7	-	-	-	-	-	-	-
49	M1-60	200	8	-	-	-	-	-	-	-
50	M1-60	200	10	-	-	-	-	-	-	-
51	M1-60	400	0.5	117	0.017	203.01	72.6	N/A	0 *	-
52	M1-60	400	1	117	0.017	203.01	72.6	0.75	0 *	-
53	M1-60	400	1.5	82	0.018	142.28	35.66	5.09	0 *	-
54	M1-60	400	2	65	0.019	112.78	22.41	10.26	1.05	-
55	M1-60	400	4	47	0.037	81.55	11.72	15.06	4.23	5.05
56	M1-60	400	5	41	0.049	71.14	8.92	13.4	11.55	12.36
57	M1-60	400	6	37	0.071	64.2	7.26	27.3	10.32	11.21
58	M1-60	400	7	32	0.1	55.52	5.43	20.21	11.14	12
59	M1-60	400	8	29	0.123	50.32	4.46	N/A	15.1	15.89
60	M1-60	400	10	23	0.202	39.91	2.81	18.35	15.99	16.9
61	M2-60	0	0.5	117	0.048	197.16	66.98	0 *	0 *	-
62	M2-60	0	1	117	0.047	197.16	66.98	0 *	0 *	-
63	M2-60	0	1.5	117	0.047	197.16	66.98	0 *	0 *	-
64	M2-60	0	2	117	0.047	197.16	66.98	0 *	0 *	-
65	M2-60	0	4	82	0.05	138.18	32.9	0 *	0 *	-
66	M2-60	0	5	-	-	-	-	-	-	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 60 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
67	M2-60	0	6	65	0.055	109.54	20.67	0 *	0.95	-
68	M2-60	0	7	-	-	-	-	-	-	-
69	M2-60	0	8	39	0.068	65.72	7.44	0 *	12.4	13.05
70	M2-60	0	10	31	0.138	52.24	4.7	0 *	11.99	12.75
71	M2-60	50	0.5	117	0.058	197.16	66.98	0 *	0 *	-
72	M2-60	50	1	117	0.059	197.16	66.98	0 *	0 *	-
73	M2-60	50	1.5	117	0.061	197.16	66.98	0 *	0 *	-
74	M2-60	50	2	117	0.062	197.16	66.98	0 *	0 *	-
75	M2-60	50	4	117	0.065	197.16	66.98	0 *	0 *	-
76	M2-60	50	5	-	-	-	-	-	-	-
77	M2-60	50	6	117	0.066	197.16	66.98	0 *	0 *	-
78	M2-60	50	7	-	-	-	-	-	-	-
79	M2-60	50	8	117	0.068	197.16	66.98	0 *	0 *	-
80	M2-60	50	10	50	0.068	84.26	12.23	0 *	2.7	3.82
81	M2-60	100	0.5							-
82	M2-60	100	1	117	0.059	197.16	66.98	0 *	0 *	-
83	M2-60	100	1.5	117	0.059	197.16	66.98	0 *	0 *	-
84	M2-60	100	2	117	0.059	197.16	66.98	0 *	0 *	-
85	M2-60	100	4	117	0.067	197.16	66.98	0 *	0 *	-
86	M2-60	100	5	-	-	-	-	-	-	-
87	M2-60	100	6	117	0.068	197.16	66.98	0 *	0 *	-
88	M2-60	100	7	-	-	-	-	-	-	-
89	M2-60	100	8	117	0.07	197.16	66.98	0 *	0 *	-
90	M2-60	100	10	117	0.07	197.16	66.98	0 *	0 *	-
91	M2-60	150	0.5	117	0.059	197.16	66.98	0 *	0 *	-
92	M2-60	150	1	117	0.059	197.16	66.98	0 *	0 *	-
93	M2-60	150	1.5	117	0.059	197.16	66.98	0 *	0 *	-
94	M2-60	150	2	117	0.059	197.16	66.98	0 *	0 *	-
95	M2-60	150	4	117	0.067	197.16	66.98	0 *	0 *	-
96	M2-60	150	5	-	-	-	-	-	-	-
97	M2-60	150	6	117	0.069	197.16	66.98	0 *	0 *	-
98	M2-60	150	7	-	-	-	-	-	-	-
99	M2-60	150	8	117	0.07	197.16	66.98	0 *	0 *	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 60 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
100	M2-60	150	10	117	0.071	197.16	66.98	0 *	0 *	-
101	M2-60	200	0.5	117	0.059	197.16	66.98	0 *	0 *	-
102	M2-60	200	1	117	0.059	197.16	66.98	0 *	0 *	-
103	M2-60	200	1.5	117	0.059	197.16	66.98	0 *	0 *	-
104	M2-60	200	2	117	0.059	197.16	66.98	0 *	0 *	-
105	M2-60	200	4	117	0.067	197.16	66.98	0 *	0 *	-
106	M2-60	200	5	-	-	-	-	-	-	-
107	M2-60	200	6	117	0.069	197.16	66.98	0 *	0 *	-
108	M2-60	200	7	-	-	-	-	-	-	-
109	M2-60	200	8	117	0.07	197.16	66.98	0 *	0 *	-
110	M2-60	200	10	117	0.071	197.16	66.98	0 *	0 *	-
111	M2-60	400	0.5	117	0.06	197.16	66.98	0 *	0 *	-
112	M2-60	400	1	117	0.06	197.16	66.98	0 *	0 *	-
113	M2-60	400	1.5	117	0.06	197.16	66.98	0 *	0 *	-
114	M2-60	400	2	117	0.06	197.16	66.98	0 *	0 *	-
115	M2-60	400	4	117	0.058	197.16	66.98	0 *	0 *	-
116	M2-60	400	5	-	-	-	-	-	-	-
117	M2-60	400	6	117	0.071	197.16	66.98	0 *	0 *	-
118	M2-60	400	7	-	-	-	-	-	-	-
119	M2-60	400	8	117	0.072	197.16	66.98	0 *	0 *	-
120	M2-60	400	10	117	0.073	197.16	66.98	0 *	0 *	-
121	M3-60	0	0.5	117	0.014	199.41	67.65	0 *	0 *	-
122	M3-60	0	1	117	0.016	199.41	67.65	0 *	0 *	-
123	M3-60	0	1.5	117	0.016	199.41	67.65	0 *	0 *	-
124	M3-60	0	2	117	0.016	199.41	67.65	0 *	0 *	-
125	M3-60	0	4	85	0.023	144.87	35.71	0 *	1.35	2.37
126	M3-60	0	5	77	0.025	131.24	29.3	0 *	7.69	8.76
127	M3-60	0	6	67	0.037	114.19	22.18	0 *	2.59	3.42
128	M3-60	0	7	62	0.044	105.67	19	0 *	6.11	7.24
129	M3-60	0	8	53	0.06	90.33	13.88	0 *	9.45	10.24
130	M3-60	0	10	42	0.094	71.58	8.72	0 *	12.85	13.1
131	M3-60	50	0.5	120	0.011	204.52	71.16	0 *	N/A	-
132	M3-60	50	1	117	0.012	199.41	67.65	0 *	0 *	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
60 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
133	M3-60	50	1.5	117	0.013	199.41	67.65	0 *	0 *	-
134	M3-60	50	2	117	0.013	199.41	67.65	0 *	0 *	-
135	M3-60	50	4	85	0.02	144.87	35.71	0 *	11.5	11.5
136	M3-60	50	5	74	0.024	126.12	27.06	0 *	5.58	6.36
137	M3-60	50	6	67	0.033	114.19	22.18	0 *	6.5	6.61
138	M3-60	50	7	57	0.041	97.15	16.06	0 *	9.31	9.72
139	M3-60	50	8	51	0.057	86.92	12.85	0 *	11.28	12.16
140	M3-60	50	10	38	0.106	64.77	7.14	0 *	14.35	15.15
141	M3-60	100	0.5	120	0.01	204.52	71.16	0 *	N/A	-
142	M3-60	100	1	117	0.011	199.41	67.65	0 *	0 *	-
143	M3-60	100	1.5	117	0.012	199.41	67.65	0 *	0 *	-
144	M3-60	100	2	117	0.012	199.41	67.65	0 *	0 *	-
145	M3-60	100	4	85	0.018	144.87	35.71	0 *	1.56	2.83
146	M3-60	100	5	77	0.022	131.24	29.3	0 *	6.86	7.67
147	M3-60	100	6	62	0.033	105.67	19	0 *	6.94	7.87
148	M3-60	100	7	55	0.042	93.74	14.95	0 *	11.1	11.71
149	M3-60	100	8	48	0.055	81.81	11.39	0 *	14.78	16.27
150	M3-60	100	10	38	0.112	64.77	7.14	0 *	13.26	13.72
151	M3-60	150	0.5	120	0.012	204.52	71.16	0 *	N/A	-
152	M3-60	150	1	117	0.014	199.41	67.65	0 *	0 *	-
153	M3-60	150	1.5	117	0.015	199.41	67.65	0 *	0 *	-
154	M3-60	150	2	117	0.015	199.41	67.65	0 *	0 *	-
155	M3-60	150	4	85	0.019	144.87	35.71	0 *	1.41	2.48
156	M3-60	150	5	74	0.022	126.12	27.06	0 *	5.58	6.62
157	M3-60	150	6	62	0.032	105.67	19	0 *	6.54	7.74
158	M3-60	150	7	55	0.04	93.74	14.95	0 *	10.78	12.01
159	M3-60	150	8	51	0.054	86.92	12.85	0 *	13.59	14.67
160	M3-60	150	10	39	0.107	66.47	7.52	0 *	11.85	12.46
161	M3-60	200	0.5	120	0.011	204.52	71.16	0 *	N/A	-
162	M3-60	200	1	117	0.014	199.41	67.65	0 *	0 *	-
163	M3-60	200	1.5	117	0.015	199.41	67.65	0 *	0 *	-
164	M3-60	200	2	117	0.015	199.41	67.65	0 *	0 *	-
165	M3-60	200	4	85	0.018	144.87	35.71	0 *	1.43	2.25

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 60 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
166	M3-60	200	5	77	0.022	131.24	29.3	0 *	5.86	6.49
167	M3-60	200	6	62	0.033	105.67	19	0 *	2.8	2.49
168	M3-60	200	7	51	0.045	86.92	12.85	0 *	9.48	10.73
169	M3-60	200	8	48	0.055	81.81	11.39	0 *	15.41	16.86
170	M3-60	200	10	39	0.11	66.47	7.52	0 *	11.84	12.59
171	M3-60	400	0.5	120	0.01	204.52	71.16	0 *	N/A	-
172	M3-60	400	1	120	0.013	204.52	71.16	0 *	N/A	-
173	M3-60	400	1.5	117	0.015	199.41	67.65	0 *	0 *	-
174	M3-60	400	2	117	0.015	199.41	67.65	0 *	0 *	-
175	M3-60	400	4	89	0.02	151.69	39.14	0 *	0.44	1.12
176	M3-60	400	5	74	0.022	126.12	27.06	0 *	3.68	4.37
177	M3-60	400	6	67	0.031	114.19	22.18	0 *	4.61	5.5
178	M3-60	400	7	62	0.039	105.67	19	0 *	6.59	7.51
179	M3-60	400	8	53	0.053	90.33	13.88	0 *	10.54	11.06
180	M3-60	400	10	41	0.096	69.88	8.31	0 *	14.21	15.1

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 90 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
1	M1-90	0	0.5	146	0.012	247.83	105.38	0 *	0 *	-
2	M1-90	0	1	146	0.012	247.83	105.38	0 *	0 *	-
3	M1-90	0	1.5	146	0.012	247.83	105.38	0 *	0 *	-
4	M1-90	0	2	62	0.016	105.24	19	0 *	3.1	-
5	M1-90	0	4	41	0.042	69.6	8.31	0 *	8.01	9.08
6	M1-90	0	5	37	0.06	62.81	6.77	0 *	9.09	9.93
7	M1-90	0	6	33	0.086	56.02	5.38	0 *	11.99	12.69
8	M1-90	0	7	22	0.176	37.34	2.39	0 *	17.42	18.07
9	M1-90	0	8	24	0.187	40.74	2.85	0 *	14.91	15.66
10	M1-90	0	10	20	0.293	33.95	1.98	0 *	17.32	18.09
11	M1-90	50	0.5	117	0.012	198.6	67.68	0 *	0.14	-
12	M1-90	50	1	117	0.013	198.6	67.68	0 *	0.09	-
13	M1-90	50	1.5	73	0.014	123.92	26.35	0 *	3.45	-
14	M1-90	50	2	73	0.013	123.92	26.35	0 *	4.17	-
15	M1-90	50	4	47	0.033	79.78	10.92	0 *	5.89	6.56
16	M1-90	50	5	39	0.055	66.2	7.52	0 *	11.15	11.78
17	M1-90	50	6	33	0.076	56.02	5.38	0 *	15.5	16.09
18	M1-90	50	7	30	0.111	50.92	4.45	0 *	13.26	14.07
19	M1-90	50	8	28	0.148	47.53	3.88	0 *	13.29	14.03
20	M1-90	50	10	24	0.235	40.74	2.85	0 *	15.46	16.25
21	M1-90	100	0.5	117	0.012	198.6	67.68	0 *	0.14	-
22	M1-90	100	1	117	0.013	198.6	67.68	0 *	0.11	-
23	M1-90	100	1.5	117	0.013	198.6	67.68	0 *	0.11	-
24	M1-90	100	2	63	0.019	106.94	19.62	0 *	3.09	-
25	M1-90	100	4	39	0.044	66.2	7.52	0 *	11.07	11.73
26	M1-90	100	5	33	0.069	56.02	5.38	0 *	13.08	13.75
27	M1-90	100	6	29	0.103	49.23	4.16	0 *	12.84	13.65
28	M1-90	100	7	26	0.14	44.13	3.34	0 *	14.66	15.46
29	M1-90	100	8	24	0.178	40.74	2.85	0 *	16.68	17.55
30	M1-90	100	10	22	0.265	37.34	2.39	0 *	18.03	18.77
31	M1-90	150	0.5	117	0.012	198.6	67.68	0 *	0.15	-
32	M1-90	150	1	117	0.012	198.6	67.68	0 *	0.11	-
33	M1-90	150	1.5	117	0.013	198.6	67.68	0 *	0.1	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 90 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
34	M1-90	150	2	63	0.014	106.94	19.62	0 *	3.81	-
35	M1-90	150	4	41	0.045	69.6	8.31	0 *	9.28	10.03
36	M1-90	150	5	33	0.067	56.02	5.38	0 *	13.47	14.14
37	M1-90	150	6	29	0.099	49.23	4.16	0 *	13.03	13.6
38	M1-90	150	7	26	0.134	44.13	3.34	0 *	14.9	15.75
39	M1-90	150	8	24	0.17	40.74	2.85	0 *	17.59	18.21
40	M1-90	150	10	22	0.258	37.34	2.39	0 *	18.46	19.2
41	M1-90	200	0.5	117	0.012	198.6	67.68	0 *	0.16	-
42	M1-90	200	1	117	0.012	198.6	67.68	0 *	0.12	-
43	M1-90	200	1.5	63	0.014	106.94	19.62	0 *	2.84	-
44	M1-90	200	2	63	0.019	106.94	19.62	0 *	3.49	-
45	M1-90	200	4	37	0.047	62.81	6.77	0 *	10.02	11.03
46	M1-90	200	5	29	0.079	49.23	4.16	0 *	12.51	13.35
47	M1-90	200	6	27	0.119	45.83	3.6	0 *	13.44	14.13
48	M1-90	200	7	24	0.16	40.74	2.85	0 *	15.87	16.7
49	M1-90	200	8	22	0.205	37.34	2.39	0 *	17.87	18.64
50	M1-90	200	10	20	0.306	33.95	1.98	0 *	18.4	19.07
51	M1-90	400	0.5	117	0.011	198.6	67.68	0 *	0.11	-
52	M1-90	400	1	87	0.012	147.68	37.42	0 *	1.44	-
53	M1-90	400	1.5	87	0.012	147.68	37.42	0 *	1.33	-
54	M1-90	400	2	73	0.016	123.92	26.35	0 *	3.91	-
55	M1-90	400	4	37	0.041	62.81	6.77	0 *	15.02	15.52
56	M1-90	400	5	33	0.061	56.02	5.38	0 *	16.81	17.72
57	M1-90	400	6	39	0.066	66.2	7.52	0 *	8.9	9.81
58	M1-90	400	7	34	0.093	57.71	5.72	0 *	11.83	12.64
59	M1-90	400	8	30	0.136	50.92	4.45	0 *	11.68	12.54
60	M1-90	400	10	26	0.212	44.13	3.34	0 *	14.03	14.86
61	M2-90	0	0.5	117	0.029	199.34	67.65	0 *	0.28	-
62	M2-90	0	1	117	0.028	199.34	67.65	0 *	0.32	-
63	M2-90	0	1.5	91	0.028	155.04	40.93	0 *	2.03	-
64	M2-90	0	2	91	0.028	155.04	40.93	0 *	1.86	-
65	M2-90	0	4	53	0.042	90.3	13.88	0 *	7.1	7.73
66	M2-90	0	5	47	0.055	80.08	10.92	0 *	11.54	12.47

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
90 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
67	M2-90	0	6	43	0.065	73.26	9.14	0 *	15.8	16.67
68	M2-90	0	7	40	0.097	68.15	7.91	0 *	9.22	10.05
69	M2-90	0	8	36	0.123	61.33	6.4	0 *	12.56	13.31
70	M2-90	0	10	30	0.186	51.11	4.45	0 *	14.51	15.32
71	M2-90	50	0.5	117	0.031	199.34	67.65	0 *	0.27	-
72	M2-90	50	1	117	0.03	199.34	67.65	0 *	0.31	-
73	M2-90	50	1.5	117	0.03	199.34	67.65	0 *	0.32	-
74	M2-90	50	2	117	0.03	199.34	67.65	0 *	0.3	-
75	M2-90	50	4	51	0.044	86.89	12.85	0 *	8.29	9.26
76	M2-90	50	5	47	0.05	80.08	10.92	0 *	14.61	15.34
77	M2-90	50	6	39	0.061	66.45	7.52	0 *	23.59	25.15
78	M2-90	50	7	38	0.093	64.74	7.14	0 *	14.88	15.53
79	M2-90	50	8	30	0.139	51.11	4.45	0 *	18.14	18.97
80	M2-90	50	10	28	0.207	47.7	3.87	0 *	15.11	15.79
81	M2-90	100	0.5	117	0.031	199.34	67.65	0 *	0.27	-
82	M2-90	100	1	117	0.03	199.34	67.65	0 *	0.29	-
83	M2-90	100	1.5	117	0.03	199.34	67.65	0 *	0.32	-
84	M2-90	100	2	157	0.038	267.48	121.82	0 *	0 *	-
85	M2-90	100	4	53	0.04	90.3	13.88	0 *	10.59	12.32
86	M2-90	100	5	47	0.046	80.08	10.92	0 *	17.3	17.92
87	M2-90	100	6	39	0.07	66.45	7.52	0 *	16.35	16.96
88	M2-90	100	7	34	0.094	57.93	5.71	0 *	19.32	20.24
89	M2-90	100	8	32	0.136	54.52	5.06	0 *	16.15	16.89
90	M2-90	100	10	28	0.214	47.7	3.87	0 *	16.35	17.19
91	M2-90	150	0.5	117	0.031	199.34	67.65	0 *	0.27	-
92	M2-90	150	1	117	0.031	199.34	67.65	0 *	0.3	-
93	M2-90	150	1.5	117	0.031	199.34	67.65	0 *	0.32	-
94	M2-90	150	2	117	0.031	199.34	67.65	0 *	0.29	-
95	M2-90	150	4	47	0.041	80.08	10.92	0 *	11.99	12.95
96	M2-90	150	5	53	0.046	90.3	13.88	0 *	16.68	17.45
97	M2-90	150	6	39	0.071	66.45	7.52	0 *	16.33	12.33
98	M2-90	150	7	34	0.097	57.93	5.71	0 *	19.41	20.25
99	M2-90	150	8	32	0.135	54.52	5.06	0 *	16.98	17.77

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
90 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
100	M2-90	150	10	28	0.22	47.7	3.87	0 *	16.19	17.1
101	M2-90	200	0.5	117	0.031	199.34	67.65	0 *	0.26	-
102	M2-90	200	1	117	0.031	199.34	67.65	0 *	0.3	-
103	M2-90	200	1.5	117	0.031	199.34	67.65	0 *	0.3	-
104	M2-90	200	2	117	0.03	199.34	67.65	0 *	0.31	-
105	M2-90	200	4	47	0.041	80.08	10.92	0 *	11.8	12.57
106	M2-90	200	5	43	0.045	73.26	9.14	0 *	21.16	21.78
107	M2-90	200	6	39	0.072	66.45	7.52	0 *	12.96	13.84
108	M2-90	200	7	34	0.101	57.93	5.71	0 *	19.12	20.01
109	M2-90	200	8	32	0.137	54.52	5.06	0 *	17.39	18.4
110	M2-90	200	10	28	0.222	47.7	3.87	0 *	16.95	17.7
111	M2-90	400	0.5	117	0.031	199.34	67.65	0 *	0.28	-
112	M2-90	400	1	91	0.03	155.04	40.93	0 *	2.22	-
113	M2-90	400	1.5	91	0.031	155.04	40.93	0 *	1.95	-
114	M2-90	400	2	91	0.031	155.04	40.93	0 *	1.76	-
115	M2-90	400	4	51	0.035	86.89	12.85	0 *	9.75	10.62
116	M2-90	400	5	53	0.044	90.3	13.88	0 *	9.84	10.66
117	M2-90	400	6	47	0.055	80.08	10.92	0 *	15.09	15.91
118	M2-90	400	7	44	0.07	74.96	9.57	0 *	5.77	6.65
119	M2-90	400	8	40	0.099	68.15	7.91	0 *	9.37	10.04
120	M2-90	400	10	34	0.155	57.93	5.71	0 *	14.07	14.93
121	M4-90	0	0.5	113	0.008	192.47	63.11	0 *	0.09	-
122	M4-90	0	1	113	0.009	192.47	63.11	0 *	0.13	-
123	M4-90	0	1.5	97	0.011	165.22	46.5	0 *	1.86	-
124	M4-90	0	2	91	0.009	155	40.93	0 *	2.23	-
125	M4-90	0	4	67	0.018	114.12	22.19	0 *	9.95	10.9
126	M4-90	0	5	53	0.027	90.27	13.88	0 *	17.06	12.89
127	M4-90	0	6	51	0.034	86.87	12.85	0 *	13.83	14.73
128	M4-90	0	7	47	0.046	80.05	10.92	0 *	16.16	17.29
129	M4-90	0	8	42	0.064	71.54	8.72	0 *	14.15	15.03
130	M4-90	0	10	36	0.101	61.32	6.41	0 *	16.07	16.7
131	M4-90	50	0.5	116	0.003	197.58	66.5	0 *	3.79	-
132	M4-90	50	1	108	0.004	183.95	57.65	0 *	5.13	-

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE
90 DÍAS (CON)

Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
133	M4-90	50	1.5	102	0.005	173.73	51.42	0 *	8.13	-
134	M4-90	50	2	100	0.007	170.33	49.42	0 *	4.95	-
135	M4-90	50	4	85	0.016	144.78	35.71	0 *	9.71	5.71
136	M4-90	50	5	67	0.024	114.12	22.19	0 *	5.98	7.49
137	M4-90	50	6	61	0.032	103.9	18.39	0 *	9.45	10.24
138	M4-90	50	7	53	0.044	90.27	13.88	0 *	10.78	11.38
139	M4-90	50	8	45	0.056	76.65	10.01	0 *	14.99	16.06
140	M4-90	50	10	41	0.087	69.83	8.31	0 *	11.86	12.84
141	M4-90	100	0.5	112	0.003	190.77	62	0 *	4.39	-
142	M4-90	100	1	104	0.004	177.14	53.45	0 *	6.45	-
143	M4-90	100	1.5	102	0.005	173.73	51.42	0 *	6.59	-
144	M4-90	100	2	96	0.006	163.51	45.55	0 *	6.84	-
145	M4-90	100	4	73	0.014	124.34	26.34	0 *	14.7	15.26
146	M4-90	100	5	63	0.022	107.31	19.62	0 *	10.16	11.32
147	M4-90	100	6	57	0.031	97.09	16.06	0 *	12.8	13.4
148	M4-90	100	7	51	0.041	86.87	12.85	0 *	13.99	14.87
149	M4-90	100	8	47	0.056	80.05	10.92	0 *	13.26	13.78
150	M4-90	100	10	39	0.09	66.43	7.52	0 *	12.99	13.68
151	M4-90	150	0.5	116	0.002	197.58	66.5	0 *	5.56	-
152	M4-90	150	1	108	0.004	183.95	57.65	0 *	6.39	-
153	M4-90	150	1.5	104	0.005	177.14	53.45	0 *	7.85	-
154	M4-90	150	2	98	0.006	166.92	47.46	0 *	6.45	-
155	M4-90	150	4	85	0.014	144.78	35.71	0 *	11.49	12
156	M4-90	150	5	67	0.019	114.12	22.19	0 *	10.18	10.97
157	M4-90	150	6	61	0.027	103.9	18.39	0 *	13.77	13.84
158	M4-90	150	7	53	0.037	90.27	13.88	0 *	15.03	14.95
159	M4-90	150	8	49	0.05	83.46	11.87	0 *	13.2	14.23
160	M4-90	150	10	41	0.085	69.83	8.31	0 *	13.03	13.9
161	M4-90	200	0.5	110	0.002	187.36	59.8	0 *	5.4	-
162	M4-90	200	1	102	0.004	173.73	51.42	0 *	6.08	-
163	M4-90	200	1.5	102	0.005	173.73	51.42	0 *	6.82	-
164	M4-90	200	2	96	0.006	163.51	45.55	0 *	8.17	-
165	M4-90	200	4	69	0.015	117.53	23.53	0 *	6.87	7.72

FORMATO DATOS - EQUIPO DE COLUMNA RESONANTE 90 DÍAS (CON)										
Consecutivo	Muestra	Presión de confinamiento	Torque	Frecuencia de Resonancia	Max. Sheir Strain	Shear Velocity	Shear Modulus (G)	Damping (%)		
		(KPa)	(PFS)	(Hz)	(%)	(m/seg)	(MPa)	F. Vibrations Decay	Half Power Bandwidth	Calculado
166	M4-90	200	5	63	0.022	107.31	19.62	0 *	11.96	12.39
167	M4-90	200	6	57	0.029	97.09	16.06	0 *	13.53	14.91
168	M4-90	200	7	47	0.042	80.05	10.92	0 *	16.11	14.51
169	M4-90	200	8	43	0.059	73.24	9.14	0 *	13.18	14.49
170	M4-90	200	10	37	0.1	63.02	6.77	0 *	14.12	15.14
171	M4-90	400	0.5	128	0.004	218.02	80.97	0 *	0 *	-
172	M4-90	400	1	128	0.005	218.02	80.97	0 *	0.03	-
173	M4-90	400	1.5	128	0.005	218.02	80.97	0 *	0.15	-
174	M4-90	400	2	110	0.006	187.36	59.8	0 *	2.77	-
175	M4-90	400	4	91	0.013	155	40.93	0	4.1	4.29
176	M4-90	400	5	87	0.021	148.19	37.41	0.07	3.08	4.11
177	M4-90	400	6	65	0.024	110.71	20.88	0 *	10.6	11.08
178	M4-90	400	7	63	0.031	107.31	19.62	0 *	10.5	10.99
179	M4-90	400	8	59	0.04	100.49	17.2	0 *	8.78	9.58
180	M4-90	400	10	49	0.065	83.46	11.87	0 *	9.65	10.34