HR Vertilog

Magnetic Flux Leakage Inspection

Advanced Analysis

Company	SOUTHERN CALFORNIA GAS COMPANY
Well	PORTER 69E
Field	ALISO CANYON
County	LOS ANGELES
State	CA

Location:
910FT SOUTH, 3255FT WEST FROM
PORTER 69E

Section 28	Township 3N	Range 16W	

Date	Aug. 31, 2016
Service Order	US109122J
Recorded by	S. PATEL / S. GORNTO
Witnessed by	JASON FIKE
API Serial No.	0403724138

Permanent Datum:	GL	Elevation: 2366.000 ft.		Depth	0.000
Log Measured From:	KB	23.500 ft. above Perm. Datum		Btm. Log Interval	0.000
Drilling Measured From:	KB	23.500 ft. above Perm. Datum		Top Log Interval	0.000
				Fluid Type	3% POLYMER KCL

Casing Data

Size	Weight	Grade	From	To	Length
9 5/8 inch	47.0 lb/ft	N80 (HR Std)	-23.9	7205	7228.9
13 3/8 inch	54.5 lb/ft	K55		843	843.0

Software Version 7.4.0.1

Equipment Data

Run	Trip	Tool Type	Tool Series	Serial Number	Position
1	1	HRVRT MFL	4997	QA10409830	LOWER
1	1	HRVRT MFL	4997	PA10409822	UPPER
1	1	HRVRT TELEM	4993	10360727	ELECTRONICS

Calibration Data

Calibration File Name	4997-9-001-PA10409822-QA10409830.CAL
Date of Calibration	05/26/2010 14:34
Calibration Identifier	928C0999-633D-4874-86A2-EBC511C9E5BE
Tool Number	4997-00

Calibrator Number	4997-9-001
Calibrator Size	(9-5/8 In - 238 mm)
Calibration Source File	20100525_104032_MEM.MVL
Calibration Software Rev	Microvision 32-bit 4.0.4.0

In making interpretations of logs our employees will give customer the benefit of their best judgment. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Interpretation

24.21 ft Hardware -External casing head response.
841.75 ft Hardware - Bottom of 13 3/8" external casing.
2069.33 ft Hardware - Centralizer
2156.36 ft Hardware - Centralizer
2247.73 ft Hardware - Centralizer
2335.66 ft Hardware - Centralizer
2427.21 ft Hardware - Centralizer
2516.63 ft Hardware - Centralizer
2606.08 ft Hardware - Centralizer
2693.29 ft Hardware - Centralizer
2775.75 ft Hardware - Centralizer
2866.96 ft Hardware - Centralizer
2957.29 ft Hardware - Centralizer
3044.09 ft Hardware - Centralizer
3128.90 ft Hardware - Centralizer
3215.85 ft Hardware - Centralizer
3306.56 ft Hardware - Centralizer
3387.55 ft Hardware - Centralizer
3475.55 ft Hardware - Centralizer
3561.35 ft Hardware - Centralizer
3651.93 ft Hardware - Centralizer
3741.08 ft Hardware - Centralizer
3864.81 ft Hardware - Centralizer
3945.53 ft Hardware - Centralizer
4030.93 ft Hardware - Centralizer
4115.87 ft Hardware - Centralizer
4203.48 ft Hardware - Centralizer
4290.69 ft Hardware - Centralizer
4378.45 ft Hardware - Centralizer
4421.67 ft Hardware - Centralizer
4509.03 ft Hardware - Centralizer
4594.75 ft Hardware - Centralizer
4681.98 ft Hardware - Centralizer
4770.03 ft Hardware - Centralizer
4853.77 ft Hardware - Centralizer
4940.13 ft Hardware - Centralizer
5029.95 ft Hardware - Centralizer
5118.66 ft Hardware - Centralizer
5203.95 ft Hardware - Centralizer
5291.92 ft Hardware - Centralizer
5377.57 ft Hardware - Centralizer
5463.99 ft Hardware - Centralizer
5552.20 ft Hardware - Centralizer
5642.17 ft Hardware - Centralizer
5728.70 ft Hardware - Centralizer
5816.44 ft Hardware - Centralizer
5945.91 ft Hardware - Centralizer
5990.04 ft Hardware - Centralizer

6033.50 ft Hardware - Centralizer
6074.69 ft Hardware - Centralizer
6116.91 ft Hardware - Centralizer
6143.89 ft Hardware - Centralizer
6203.72 ft Hardware - Centralizer
6247.64 ft Hardware - Centralizer
6289.77 ft Hardware - Centralizer
6335.22 ft Hardware - Centralizer
6378.34 ft Hardware - Centralizer
6420.18 ft Hardware - Centralizer
6422.17 ft Hardware - Centralizer
6510.09 ft Hardware - Centralizer
6553.78 ft Hardware - Centralizer
6595.82 ft Hardware - Centralizer
6640.82 ft Hardware - Centralizer
6685.93 ft Hardware - Centralizer
6726.45 ft Hardware - Centralizer
6771.31 ft Hardware - Centralizer
6817.25 ft Hardware - Centralizer
6861.72 ft Hardware - Centralizer
6904.03 ft Hardware - Centralizer
6919.95 ft Hardware - Centralizer
6964.56 ft Hardware - Centralizer
7006.97 ft Hardware - Centralizer
7051.68 ft Hardware - Centralizer
7063.09 ft Hardware - Scratcher
7079.29 ft Hardware - Centralizer
7081.42 ft Hardware - Scratcher
7093.10 ft Hardware - Centralizer
7096.20 ft Hardware - Centralizer
7123.98 ft Hardware - Scratcher
7134.49 ft Hardware - Centralizer
7145.75 ft Hardware - Scratcher
7154.55 ft Hardware - Centralizer
7157.17 ft Hardware - Scratcher
7178.36 ft Hardware - Centralizer
7190.75 ft Hardware - Scratcher

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	ID/OD
1	23.46	44.26	20.80	Class 1	-	-	-
2	44.26	81.20	36.94	Class 1	-	-	-
3	81.20	127.50	46.30	Class 1	-	-	-
4	127.50	170.67	43.17	Class 1	-	-	-
5	170.67	213.36	42.69	Class 1	-	-	-
6	213.36	256.36	43.00	Class 1	-	-	-
7	256.36	300.99	44.63	Class 1	-	-	-
8	300.99	345.16	44.17	Class 1	-	-	-
9	345.16	390.86	45.70	Class 1	-	-	-
10	390.86	434.96	44.10	Class 1	-	-	-
11	434.96	476.83	41.87	Class 1	-	-	-
12	476.83	519.69	42.86	Class 1	-	-	-
13	519.69	564.67	44.98	Class 1	-	-	-
14	564.67	609.65	44.98	Class 1	-	-	-
15	609.65	655.41	45.76	Class 1	-	-	-
16	655.41	700.72	45.31	Class 1			

16	655.41	700.72	45.31	Class 1	-	-	-
17	700.72	745.04	44.32	Class 1	-	-	-
18	745.04	790.82	45.78	Class 1	-	-	-
19	790.82	832.76	41.94	Class 1	-	-	-
20	832.76	878.07	45.31	Class 1	-	-	-
21	878.07	921.75	43.68	Class 1	-	-	-
22	921.75	965.43	43.68	Class 1	-	-	-
23	965.43	1009.47	44.04	Class 1	-	-	-
24	1009.47	1054.14	44.67	Class 1	-	-	-
25	1054.14	1099.23	45.09	Class 1	-	-	-
26	1099.23	1142.56	43.33	Class 1	-	-	-
27	1142.56	1185.64	43.08	Class 1	-	-	-
28	1185.64	1231.00	45.36	Class 1	-	-	-
29	1231.00	1274.03	43.03	Class 1	-	-	-
30	1274.03	1316.13	42.10	Class 1	-	-	-
31	1316.13	1360.36	44.23	Class 1	-	-	-
32	1360.36	1404.38	44.02	Class 1	-	-	-
33	1404.38	1448.25	43.87	Class 1	-	-	-
34	1448.25	1492.42	44.17	Class 1	-	-	-
35	1492.42	1537.89	45.47	Class 1	-	-	-
36	1537.89	1583.58	45.69	Class 1	-	-	-
37	1583.58	1627.64	44.06	Class 1	-	-	-
38	1627.64	1672.08	44.44	Class 1	-	-	-
39	1672.08	1717.14	45.06	Class 1	-	-	-
40	1717.14	1760.65	43.51	Class 1	19.0%	1736.59	OD
41	1760.65	1805.72	45.07	Class 1	-	-	-
42	1805.72	1851.46	45.74	Class 1	-	-	-
43	1851.46	1895.64	44.18	Class 1	-	-	-
44	1895.64	1938.07	42.43	Class 1	-	-	-
45	1938.07	1981.07	43.00	Class 1	-	-	-
46	1981.07	2026.74	45.67	Class 1	-	-	-
47	2026.74	2069.27	42.53	Class 1	-	-	-
48	2069.27	2113.61	44.34	Class 1	-	-	-
49	2113.61	2156.40	42.79	Class 1	-	-	-
50	2156.40	2201.94	45.54	Class 1	-	-	-
51	2201.94	2247.70	45.76	Class 1	-	-	-
52	2247.70	2291.44	43.74	Class 1	-	-	-
53	2291.44	2335.64	44.20	Class 1	-	-	-
54	2335.64	2381.06	45.42	Class 1	-	-	-
55	2381.06	2427.23	46.17	Class 1	-	-	-
56	2427.23	2471.79	44.56	Class 1	-	-	-
57	2471.79	2516.65	44.86	Class 1	-	-	-
58	2516.65	2560.65	44.00	Class 1	-	-	-
59	2560.65	2606.06	45.41	Class 1	-	-	-
60	2606.06	2649.77	43.71	Class 1	-	-	-
61	2649.77	2693.27	43.50	Class 1	-	-	-
62	2693.27	2735.19	41.92	Class 1	-	-	-
63	2735.19	2775.70	40.51	Class 1	-	-	-
64	2775.70	2821.52	45.82	Class 1	-	-	-
65	2821.52	2866.93	45.41	Class 1	-	-	-
66	2866.93	2911.64	44.71	Class 1	-	-	-
67	2911.64	2957.37	45.73	Class 1	-	-	-
68	2957.37	2999.93	42.56	Class 1	-	-	-
69	2999.93	3043.99	44.06	Class 1	-	-	-
70	3043.99	3087.30	43.31	Class 1	-	-	-
71	3087.30	3128.91	41.61	Class 1	-	-	-
72	3128.91	3172.84	43.93	Class 1	-	-	-
73	3172.84	3215.92	43.08	Class 1	-	-	-
74	3215.92	3261.29	45.37	Class 1	-	-	-
75	3261.29	3306.52	45.23	Class 1	-	-	-
76	3306.52	3347.84	41.32	Class 1	-	-	-
77	3347.84	3387.51	39.67	Class 1	-	-	-
78	3387.51	3431.46	43.95	Class 1	-	-	-

79	3431.46	3475.53	44.07	Class 1	-	-	-
80	3475.53	3519.28	43.75	Class 1	-	-	-
81	3519.28	3561.32	42.04	Class 1	-	-	-
82	3561.32	3605.97	44.65	Class 1	-	-	-
83	3605.97	3651.82	45.85	Class 1	-	-	-
84	3651.82	3696.68	44.86	Class 1	-	-	-
85	3696.68	3741.03	44.35	Class 1	-	-	-
86	3741.03	3780.01	38.98	Class 1	-	-	-
87	3780.01	3823.64	43.63	Class 1	-	-	-
88	3823.64	3864.75	41.11	Class 1	-	-	-
89	3864.75	3905.71	40.96	Class 1	-	-	-
90	3905.71	3945.44	39.73	Class 1	-	-	-
91	3945.44	3988.71	43.27	Class 1	-	-	-
92	3988.71	4030.86	42.15	Class 1	-	-	-
93	4030.86	4073.86	43.00	Class 1	-	-	-
94	4073.86	4115.76	41.90	Class 1	-	-	-
95	4115.76	4160.73	44.97	Class 1	-	-	-
96	4160.73	4203.36	42.63	Class 1	-	-	-
97	4203.36	4244.95	41.59	Class 1	-	-	-
98	4244.95	4290.72	45.77	Class 1	-	-	-
99	4290.72	4332.40	41.68	Class 1	-	-	-
100	4332.40	4378.44	46.04	Class 1	-	-	-
101	4378.44	4421.67	43.23	Class 1	-	-	-
102	4421.67	4465.73	44.06	Class 1	-	-	-
103	4465.73	4508.94	43.21	Class 1	-	-	-
104	4508.94	4555.11	46.17	Class 1	-	-	-
105	4555.11	4594.71	39.60	Class 1	-	-	-
106	4594.71	4638.99	44.28	Class 1	-	-	-
107	4638.99	4681.90	42.91	Class 1	-	-	-
108	4681.90	4725.62	43.72	Class 1	-	-	-
109	4725.62	4770.07	44.45	Class 1	-	-	-
110	4770.07	4812.75	42.68	Class 1	-	-	-
111	4812.75	4853.78	41.03	Class 1	-	-	-
112	4853.78	4898.58	44.80	Class 1	-	-	-
113	4898.58	4940.09	41.51	Class 1	-	-	-
114	4940.09	4984.94	44.85	Class 1	-	-	-
115	4984.94	5029.89	44.95	Class 1	-	-	-
116	5029.89	5074.17	44.28	Class 1	-	-	-
117	5074.17	5118.65	44.48	Class 1	-	-	-
118	5118.65	5161.30	42.65	Class 1	-	-	-
119	5161.30	5203.89	42.59	Class 1	-	-	-
120	5203.89	5249.30	45.41	Class 1	-	-	-
121	5249.30	5291.93	42.63	Class 1	-	-	-
122	5291.93	5334.42	42.49	Class 1	-	-	-
123	5334.42	5377.66	43.24	Class 1	-	-	-
124	5377.66	5421.17	43.51	Class 1	-	-	-
125	5421.17	5463.95	42.78	Class 1	-	-	-
126	5463.95	5508.04	44.09	Class 1	-	-	-
127	5508.04	5552.19	44.15	Class 1	-	-	-
128	5552.19	5596.84	44.65	Class 1	-	-	-
129	5596.84	5642.16	45.32	Class 1	-	-	-
130	5642.16	5685.76	43.60	Class 1	-	-	-
131	5685.76	5728.64	42.88	Class 1	-	-	-
132	5728.64	5772.32	43.68	Class 1	-	-	-
133	5772.32	5816.47	44.15	Class 1	-	-	-
134	5816.47	5859.64	43.17	Class 1	-	-	-
135	5859.64	5903.60	43.96	Class 1	-	-	-
136	5903.60	5945.91	42.31	Class 1	-	-	-
137	5945.91	5990.02	44.11	Class 1	-	-	-
138	5990.02	6033.49	43.47	Class 1	-	-	-
139	6033.49	6074.62	41.13	Class 1	-	-	-
140	6074.62	6116.91	42.29	Class 1	-	-	-

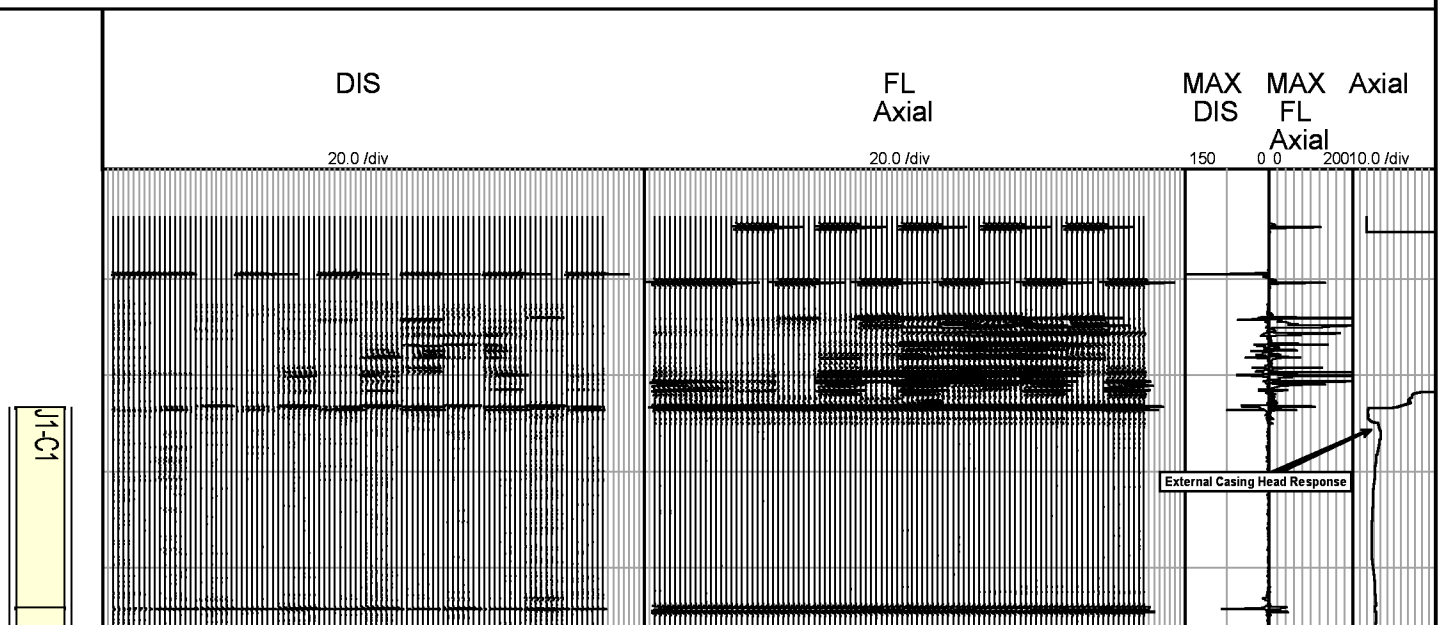
141	6116.91	6160.37	43.46	Class	1	-	-	-
142	6160.37	6203.72	43.35	Class	1	-	-	-
143	6203.72	6247.63	43.91	Class	1	-	-	-
144	6247.63	6289.76	42.13	Class	1	-	-	-
145	6289.76	6335.21	45.45	Class	1	-	-	-
146	6335.21	6378.32	43.11	Class	1	-	-	-
147	6378.32	6422.02	43.70	Class	1	-	-	-
148	6422.02	6467.02	45.00	Class	1	-	-	-
149	6467.02	6510.10	43.08	Class	1	-	-	-
150	6510.10	6553.80	43.70	Class	1	-	-	-
151	6553.80	6595.68	41.88	Class	1	-	-	-
152	6595.68	6640.88	45.20	Class	1	-	-	-
153	6640.88	6685.90	45.02	Class	1	-	-	-
154	6685.90	6726.44	40.54	Class	1	-	-	-
155	6726.44	6771.27	44.83	Class	1	-	-	-
156	6771.27	6817.25	45.98	Class	1	-	-	-
157	6817.25	6861.73	44.48	Class	1	-	-	-
158	6861.73	6904.01	42.28	Class	1	-	-	-
159	6904.01	6919.98	15.97	Class	1	-	-	-
160	6919.98	6964.54	44.56	Class	1	-	-	-
161	6964.54	7006.97	42.43	Class	1	-	-	-
162	7006.97	7051.71	44.74	Class	1	-	-	-
163	7051.71	7093.14	41.43	Class	1	-	-	-
164	7093.14	7134.58	41.44	Class	2	27.0%	7094.74	ID
165	7134.58	7178.33	43.75	Class	1	-	-	-
166	7178.33	7193.64	15.31	Class	1	-	-	-

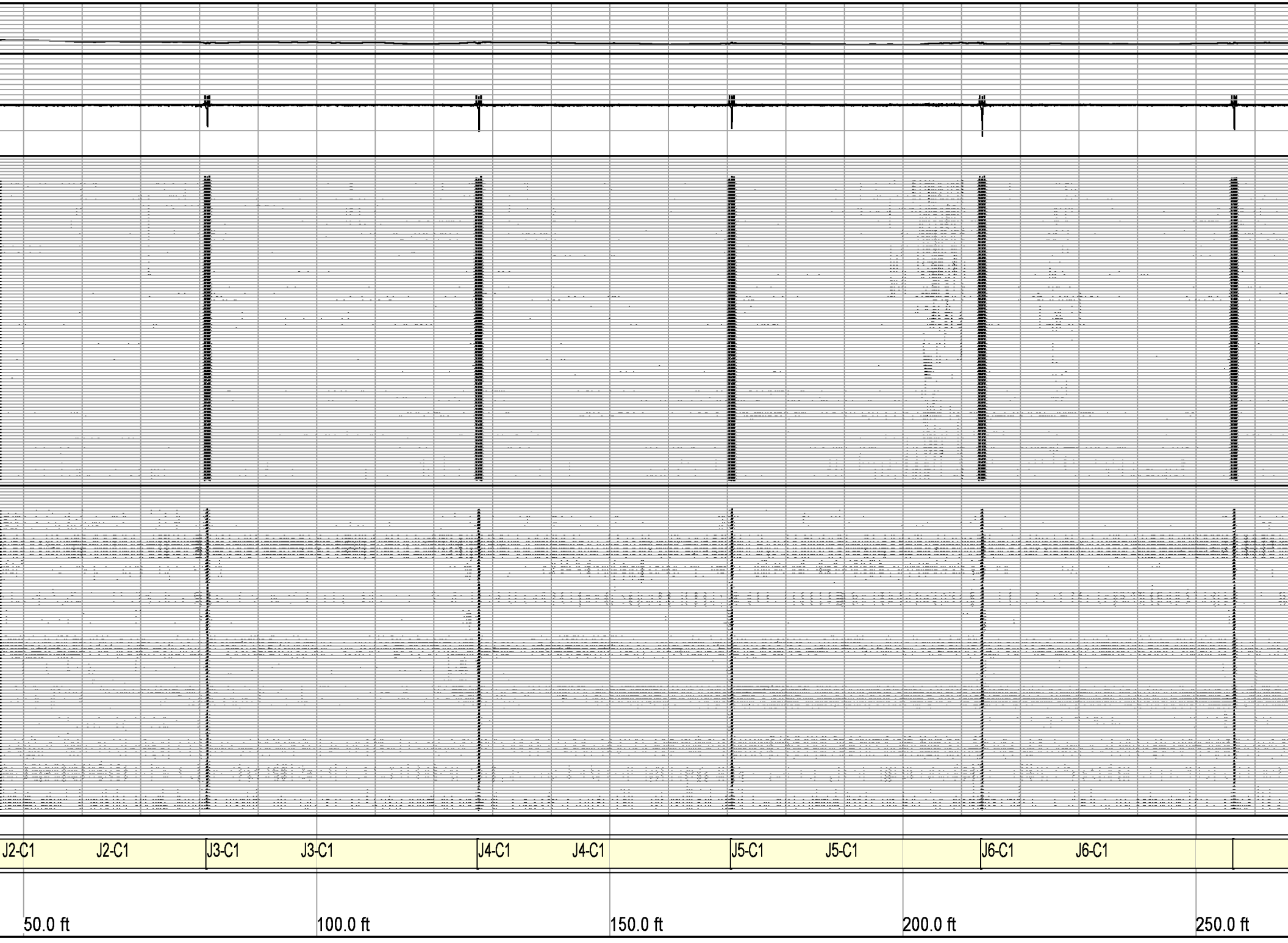
SOUTHERN CALFORNIA GAS COMPANY PORTER 69E

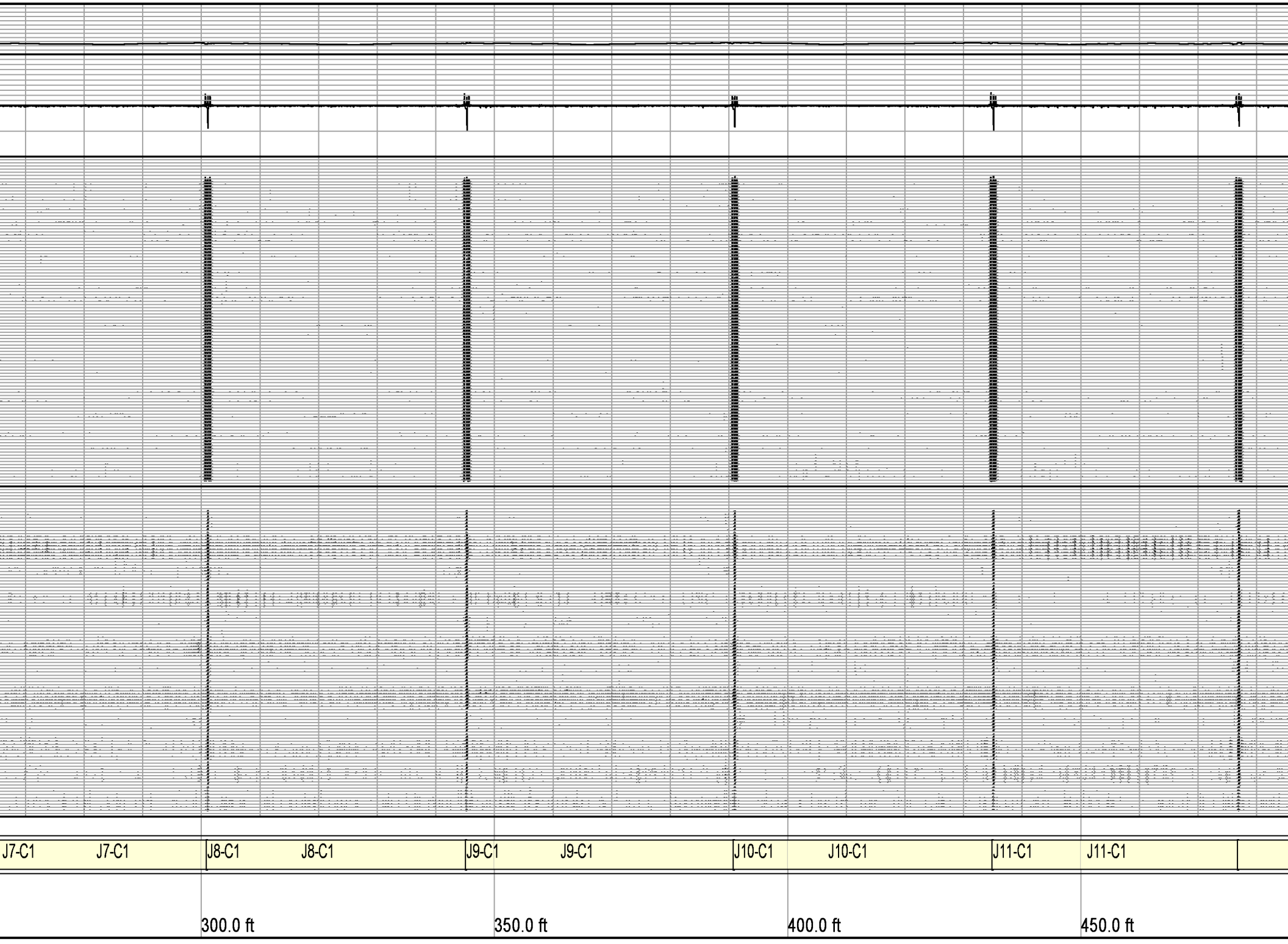
File 20160831_12381C_RSP_0_0_0_0_0_0_0.mvl

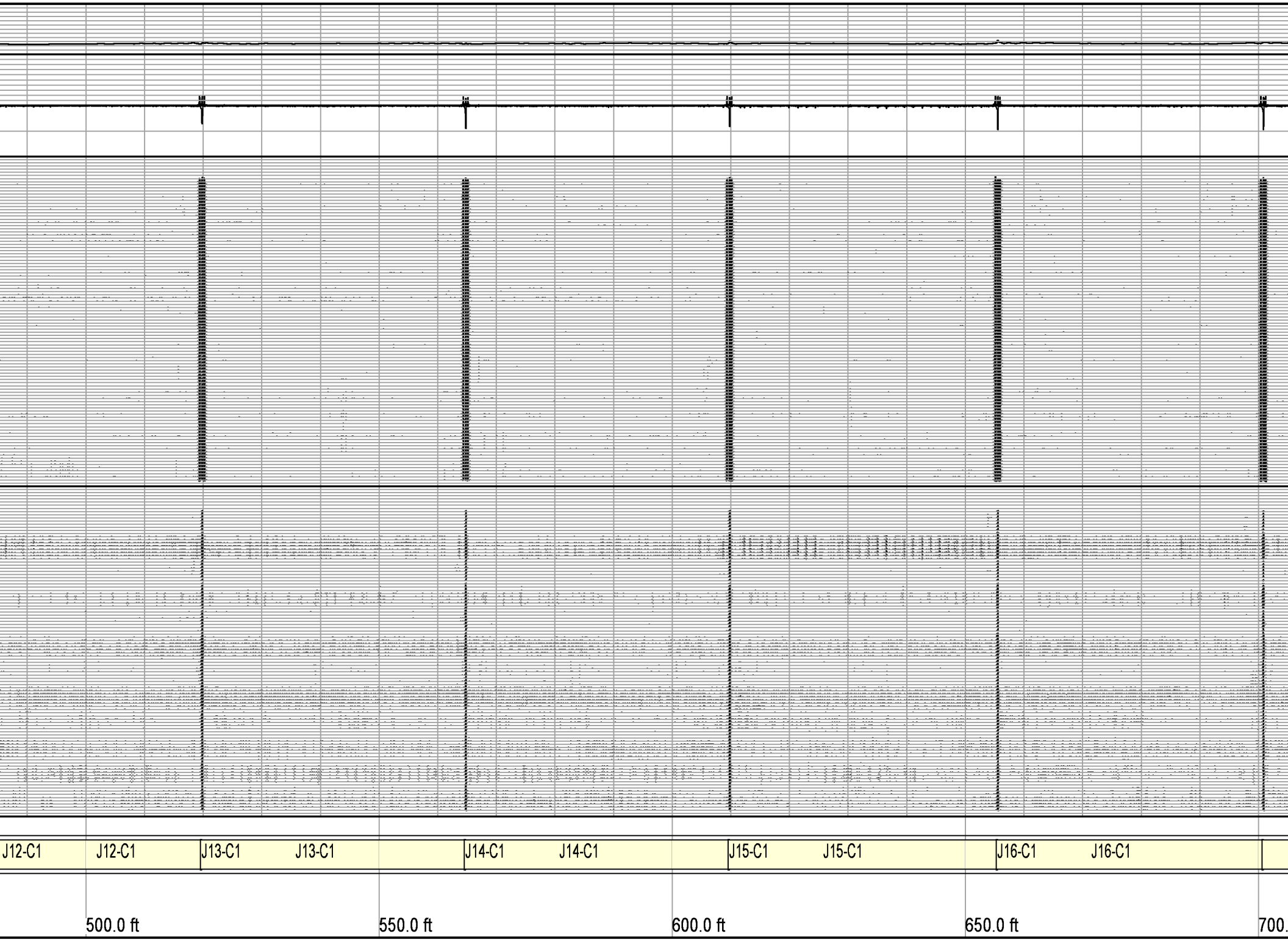
Main Section
5"/100'

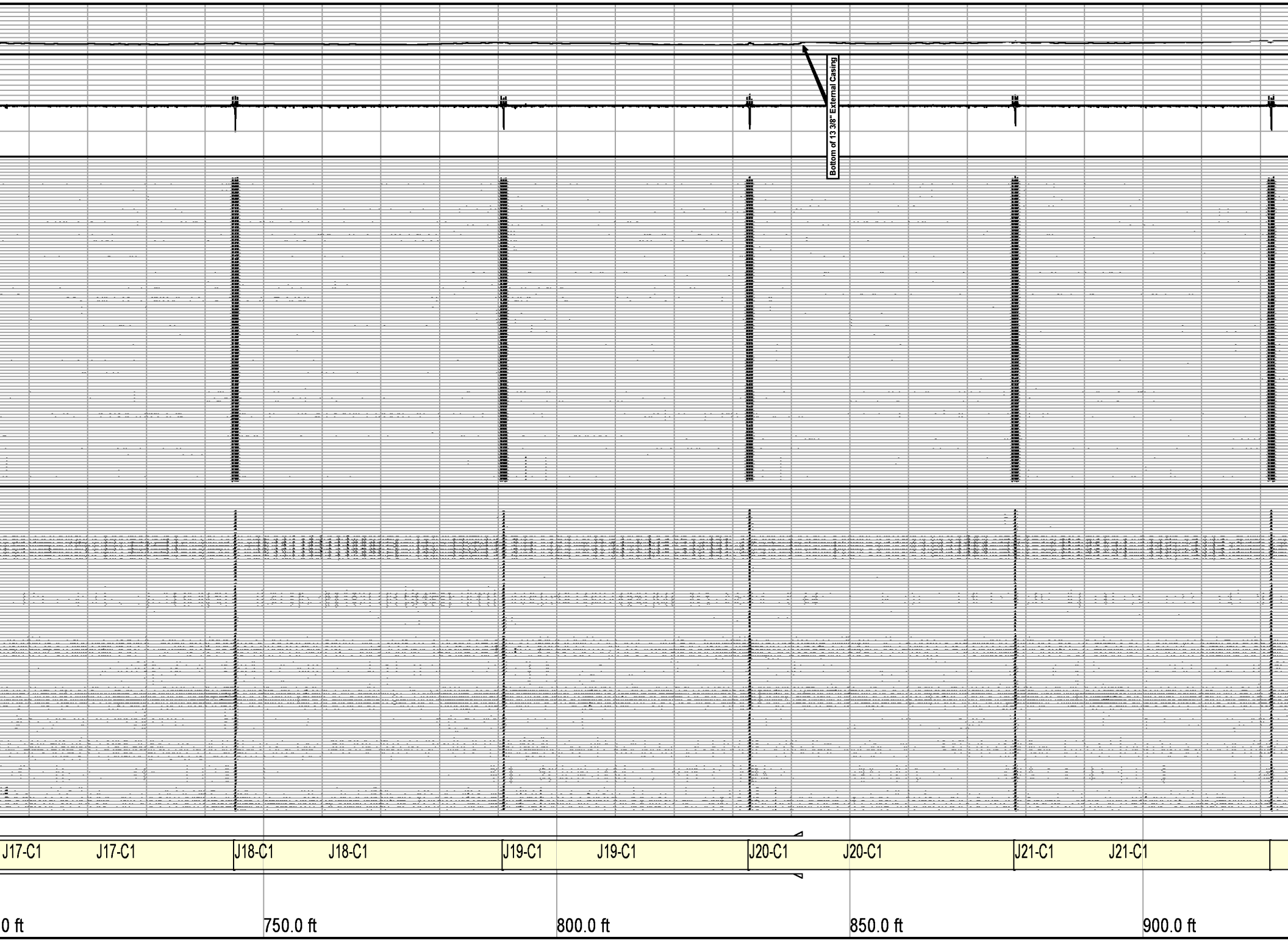
Class 1	Class 2	Class 3	Class 4
0 - 20%	20 - 40%	40 - 60%	60 - 100%

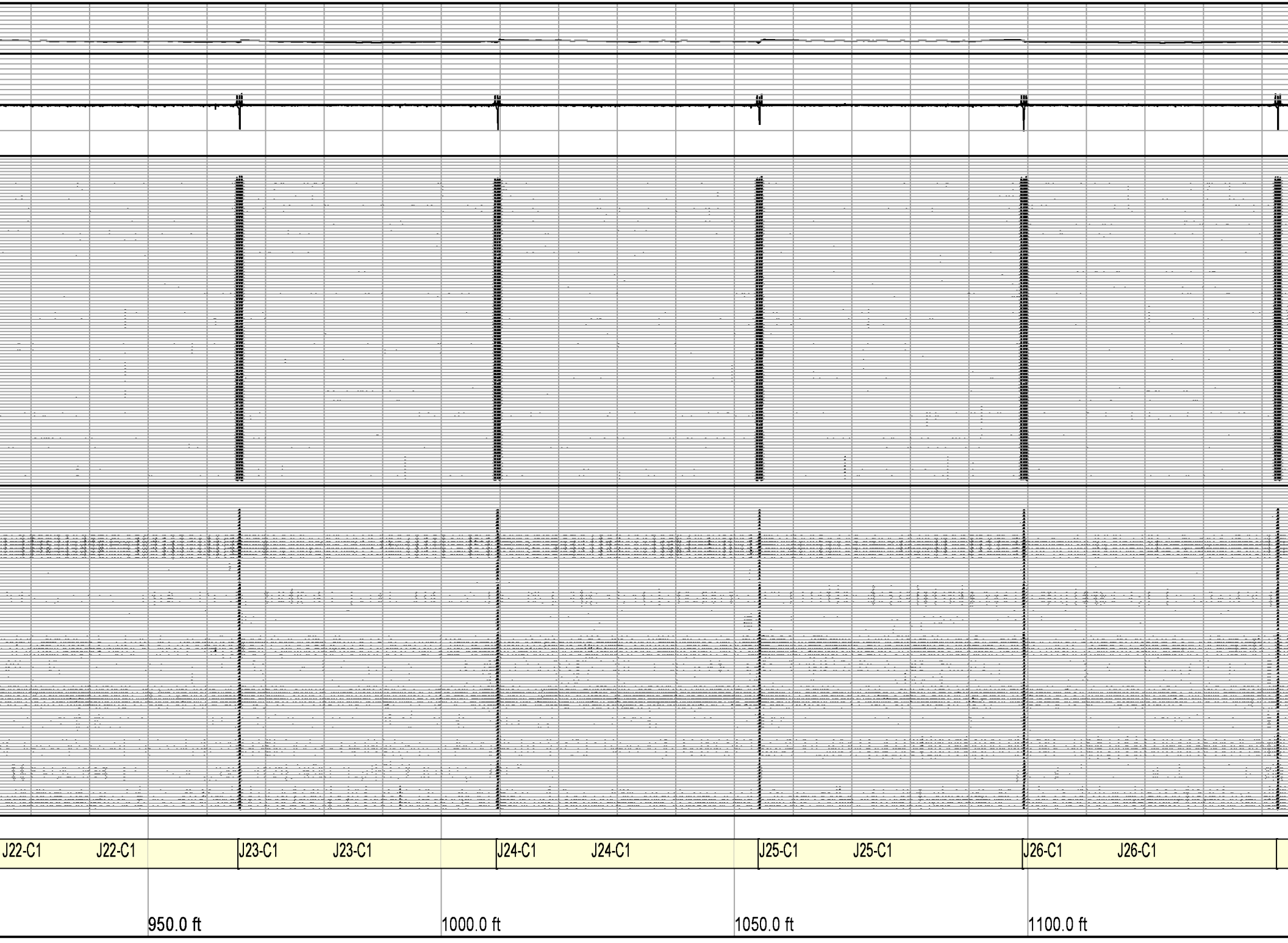


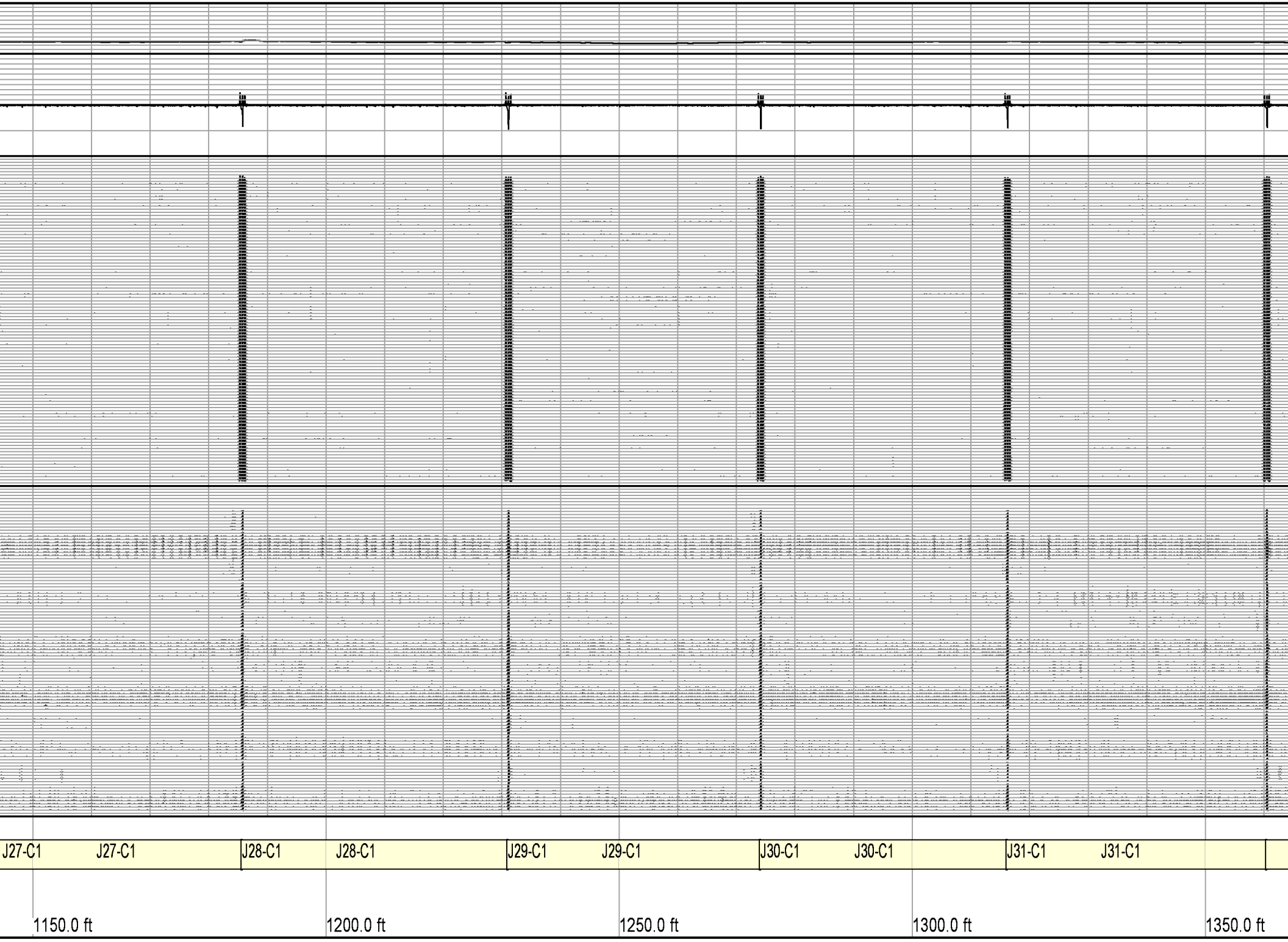

J2-C1
J2-C1
J3-C1
J3-C1
J4-C1
J4-C1
J5-C1
J5-C1
J6-C1
J6-C1
50.0 ft
100.0 ft
150.0 ft
200.0 ft
250.0 ft

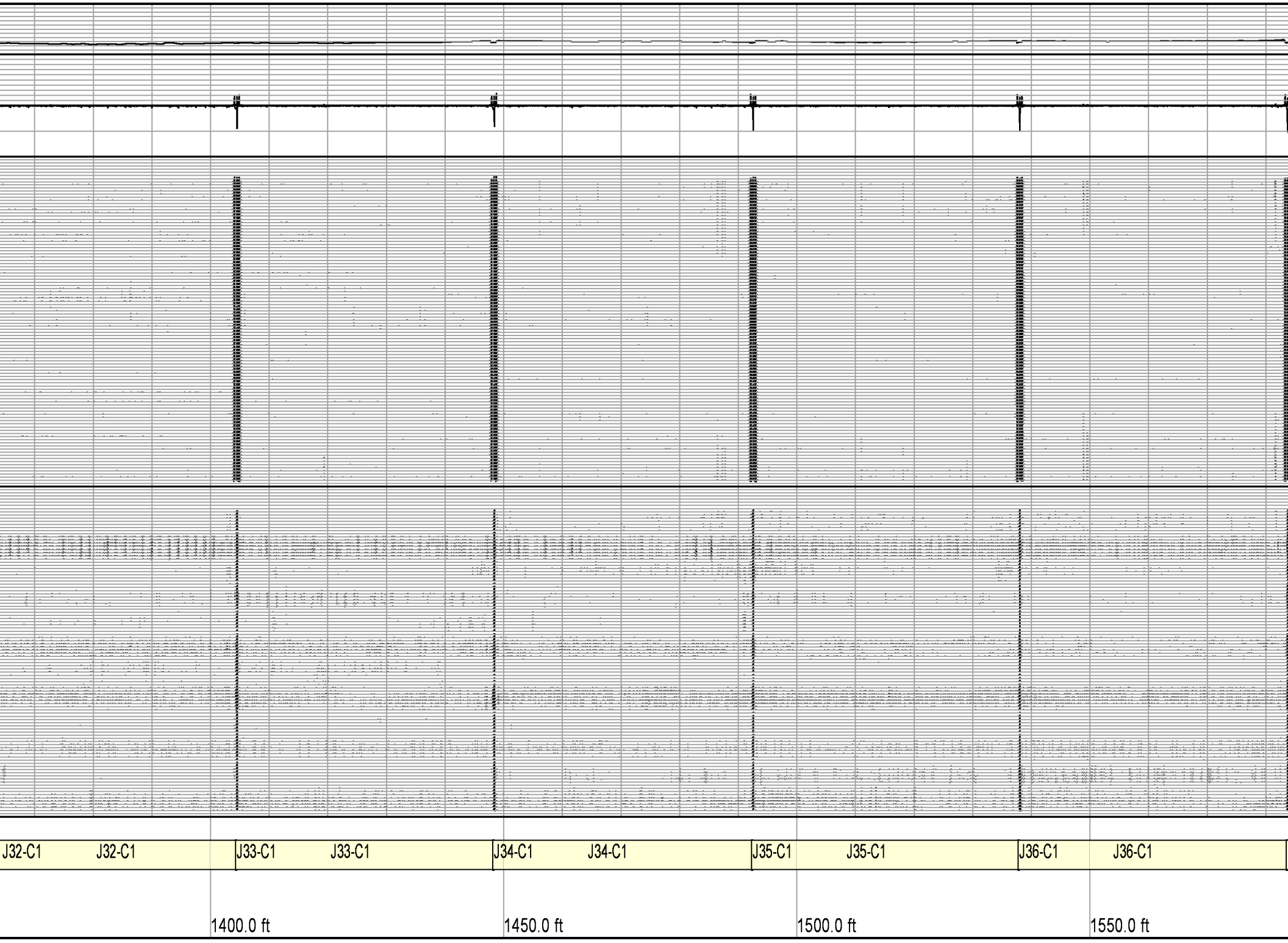

J7-C1
J7-C1
J8-C1
J8-C1
J9-C1
J9-C1
J10-C1
J10-C1
J11-C1
J11-C1
300.0 ft
350.0 ft
400.0 ft
450.0 ft

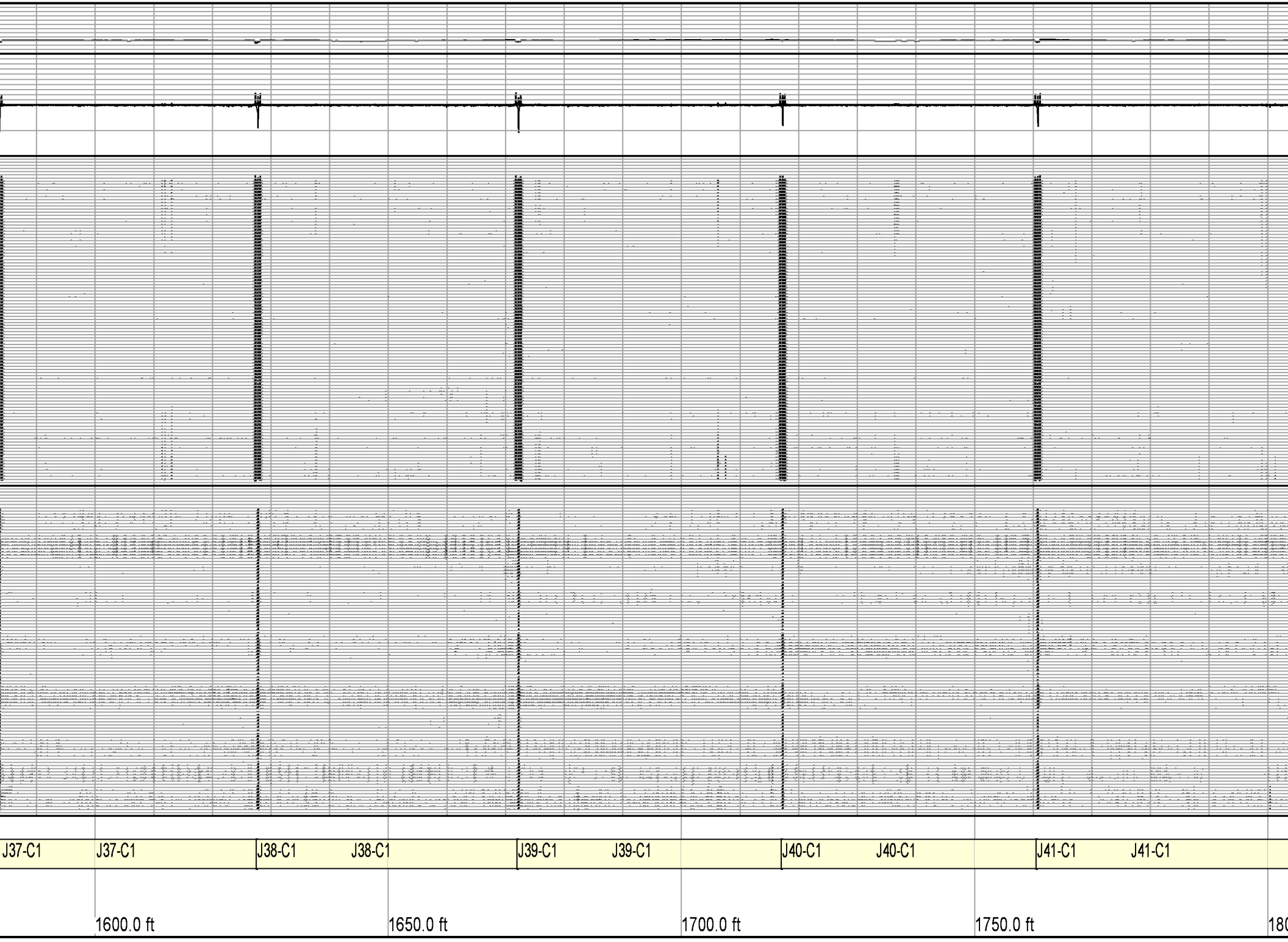

J12-C1
J12-C1
J13-C1
J13-C1
J14-C1
J14-C1
J15-C1
J15-C1
J16-C1
J16-C1
500.0 ft
550.0 ft
600.0 ft
650.0 ft
700.

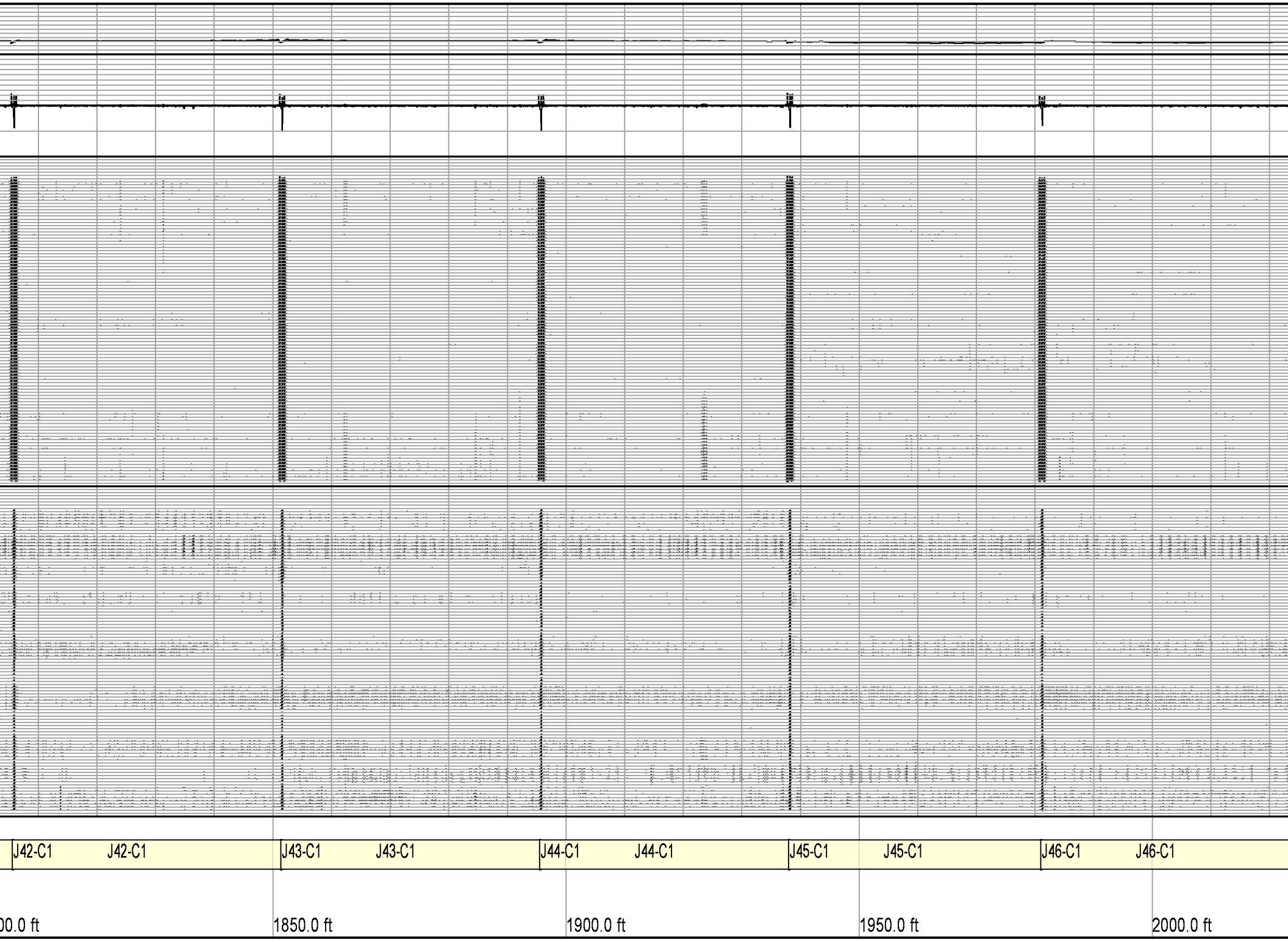

Bottom of 13 3/8" External Casing
J17-C1
J17-C1
J18-C1
J18-C1
J19-C1
J19-C1
J20-C1
J20-C1
J21-C1
J21-C1
0 ft
750.0 ft
800.0 ft
850.0 ft
900.0 ft

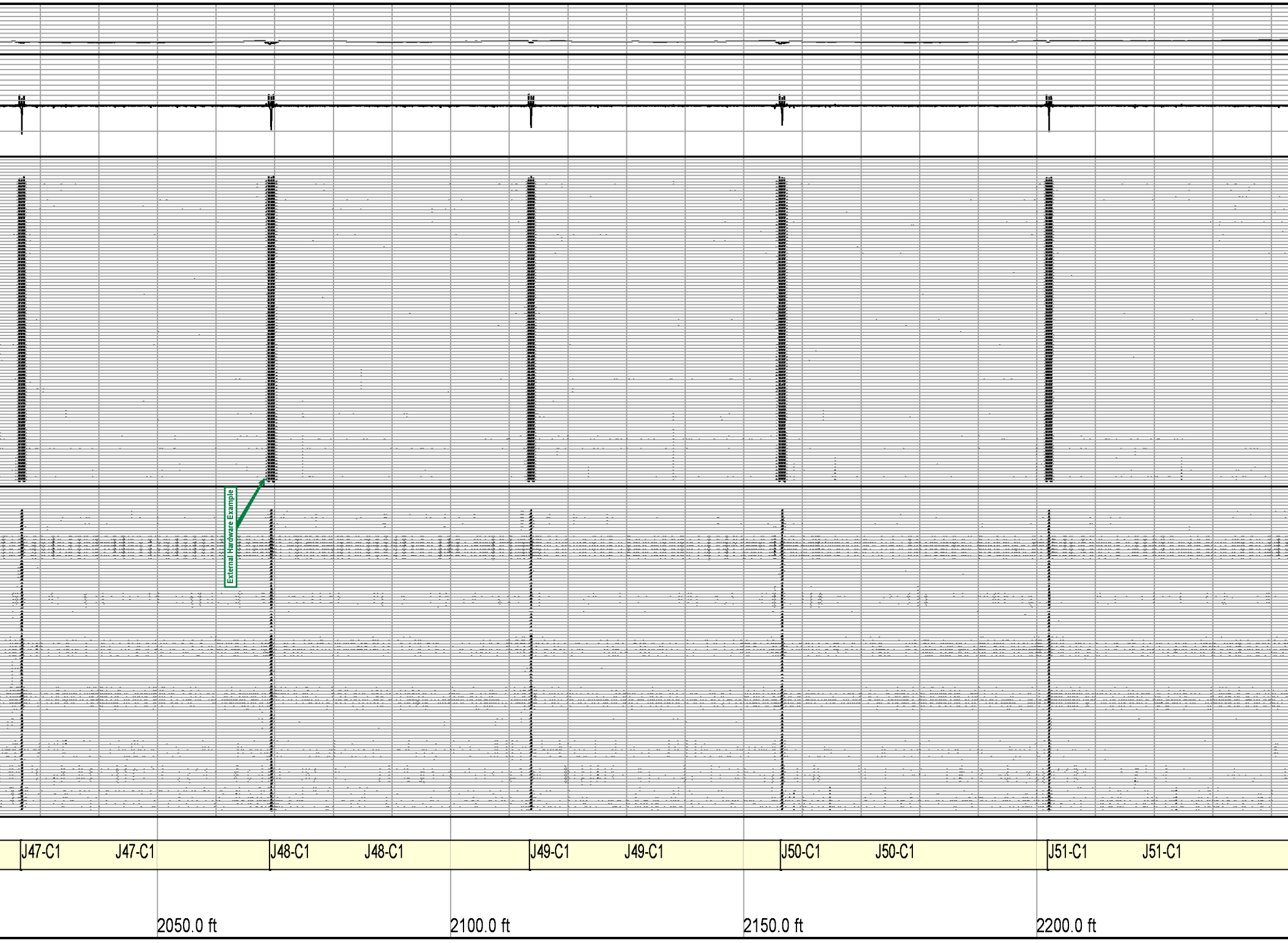

J22-C1
J22-C1
J23-C1
J23-C1
J24-C1
J24-C1
J25-C1
J25-C1
J26-C1
J26-C1
950.0 ft
1000.0 ft
1050.0 ft
1100.0 ft

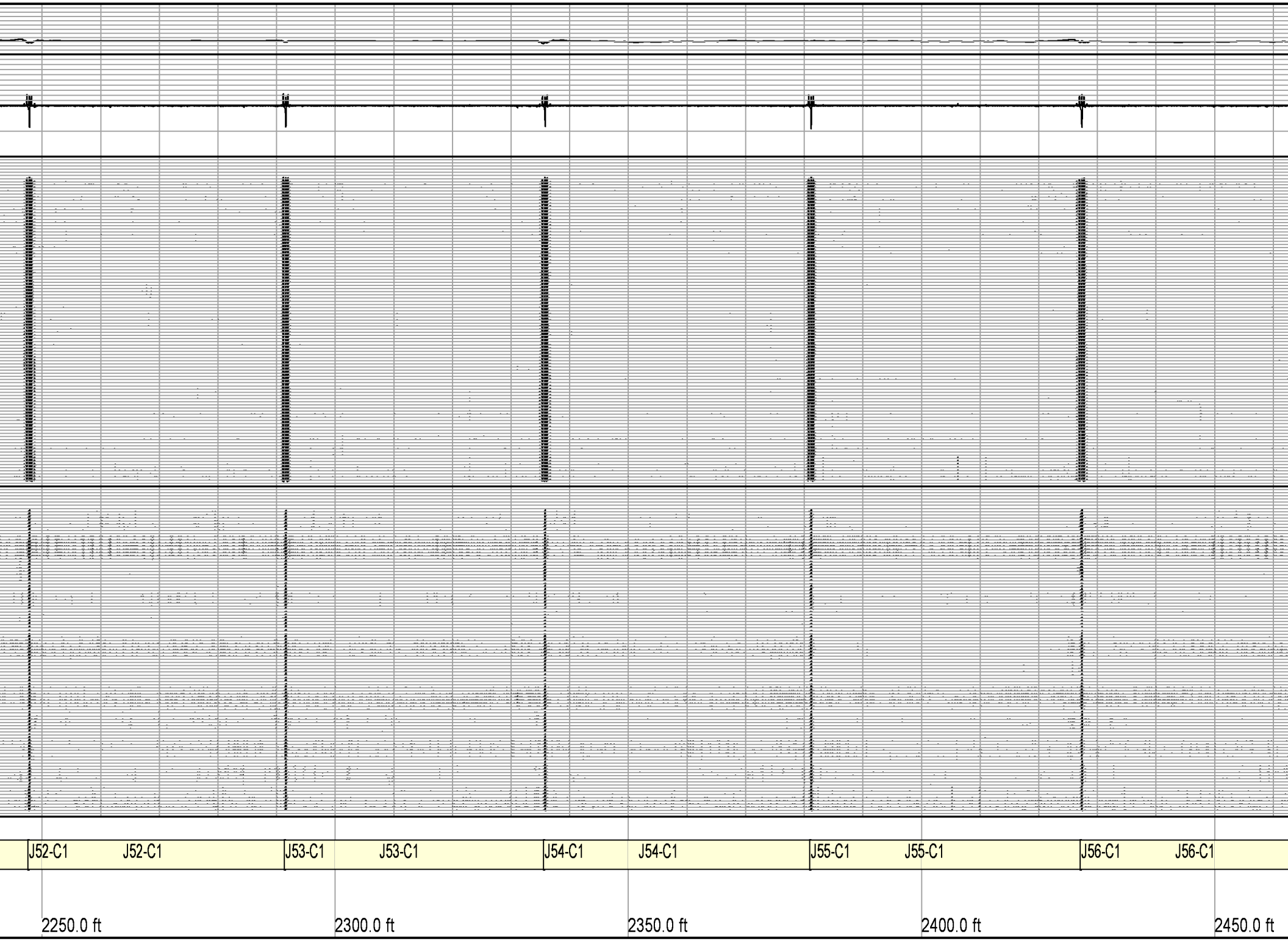

J27-C1
J27-C1
J28-C1
J28-C1
J29-C1
J29-C1
J30-C1
J30-C1
J31-C1
J31-C1
1150.0 ft
1200.0 ft
1250.0 ft
1300.0 ft
1350.0 ft

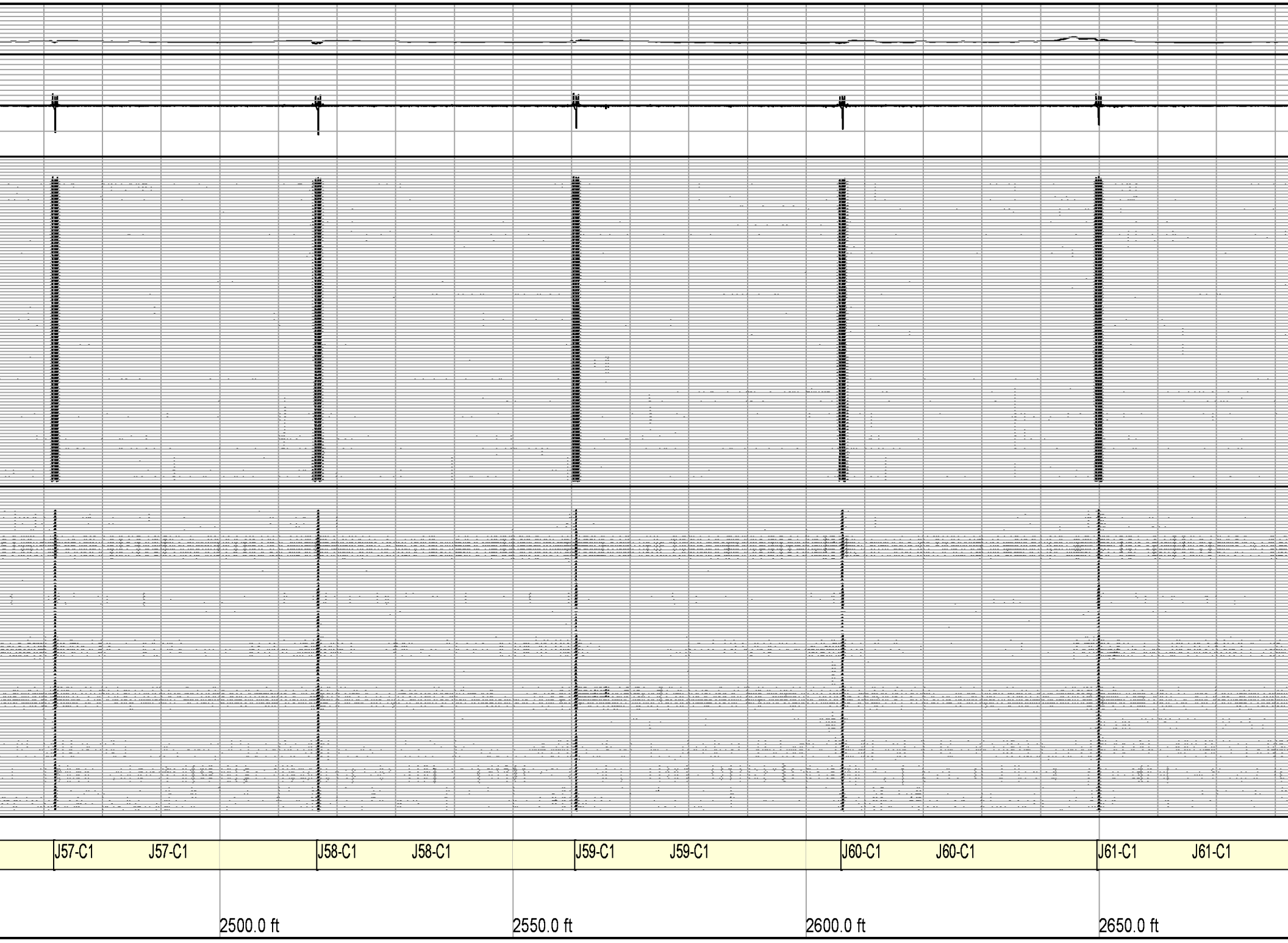

J32-C1
J32-C1
J33-C1
J33-C1
J34-C1
J34-C1
J35-C1
J35-C1
J36-C1
J36-C1
1400.0 ft
1450.0 ft
1500.0 ft
1550.0 ft

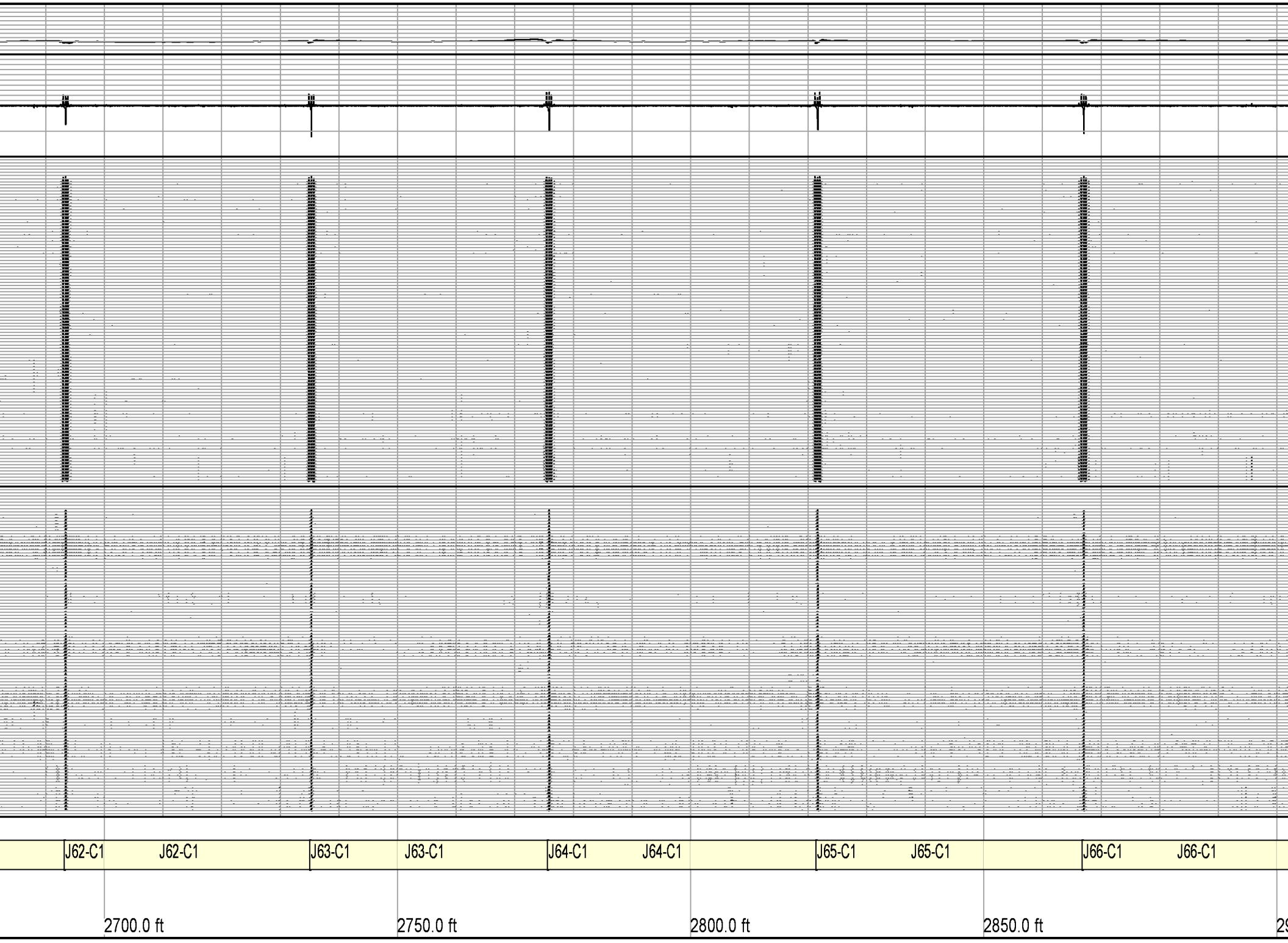

J37-C1
J37-C1
J38-C1
J38-C1
J39-C1
J39-C1
J40-C1
J40-C1
J41-C1
J41-C1
1600.0 ft
1650.0 ft
1700.0 ft
1750.0 ft

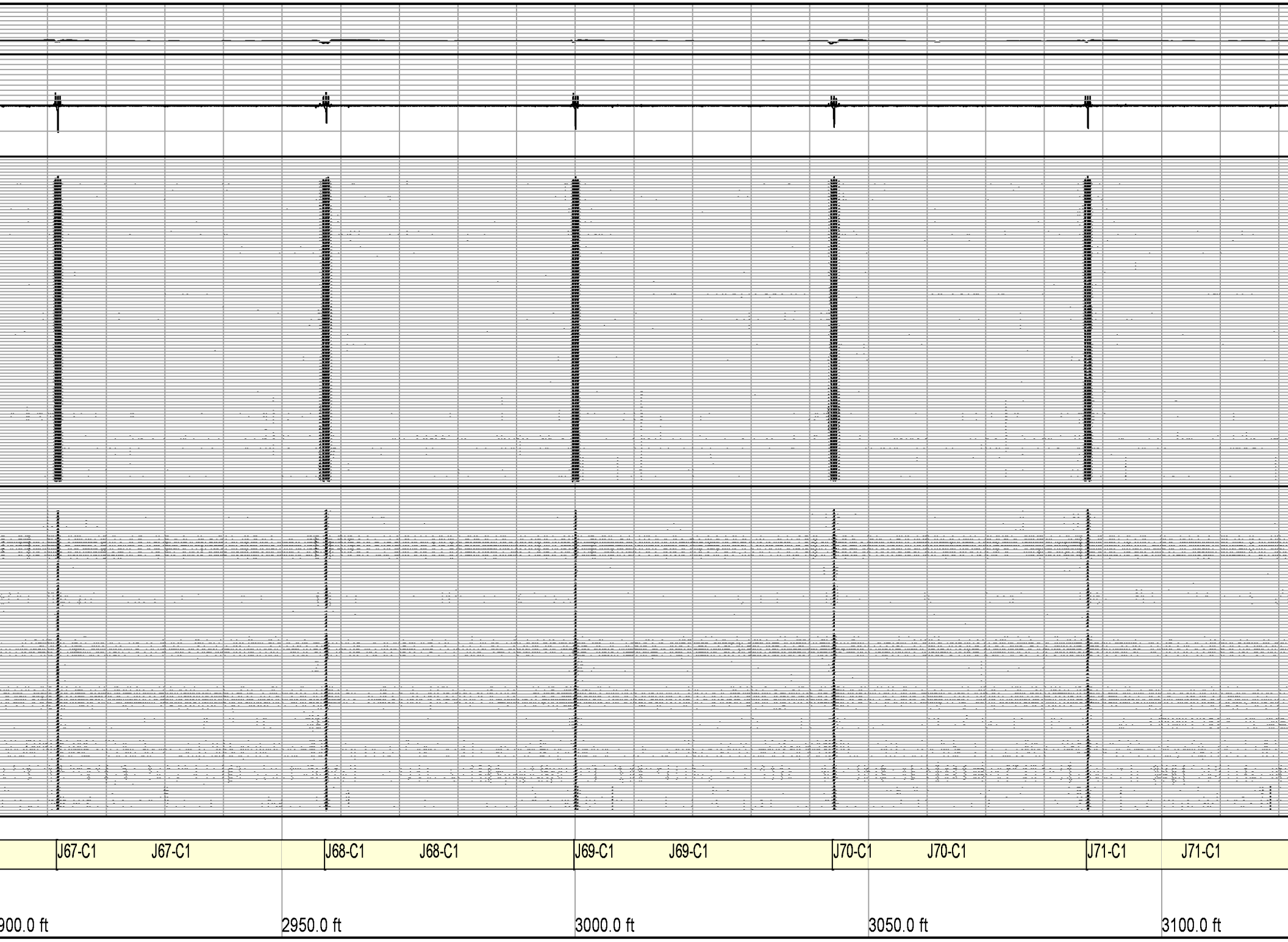

J42-C1
J42-C1
J43-C1
J43-C1
J44-C1
J44-C1
J45-C1
J45-C1
J46-C1
J46-C1
00.0 ft
1850.0 ft
1900.0 ft
1950.0 ft
2000.0 ft

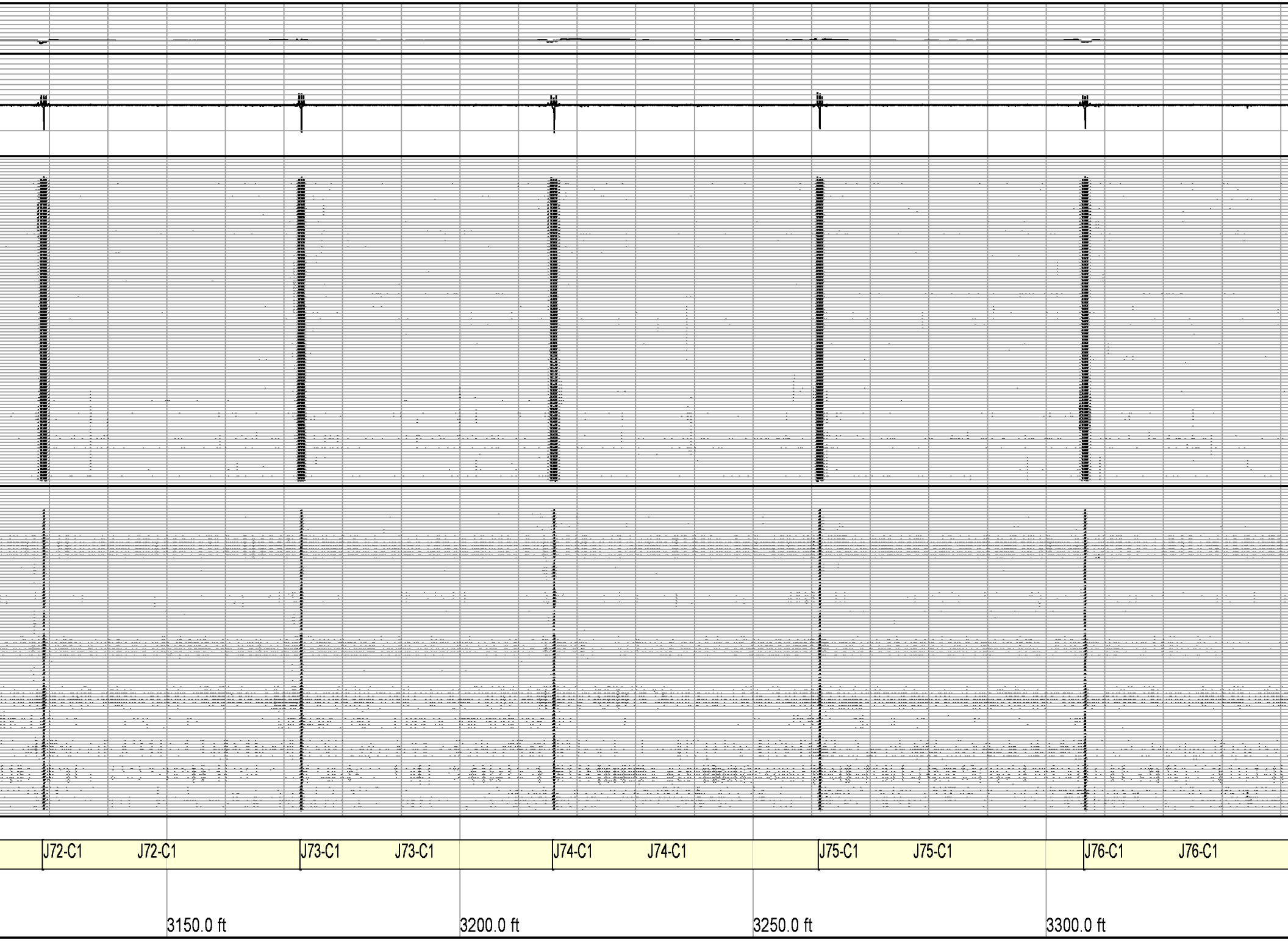

External Hardware Example
J47-C1
J47-C1
J48-C1
J48-C1
J49-C1
J49-C1
J50-C1
J50-C1
J51-C1
J51-C1
2050.0 ft
2100.0 ft
2150.0 ft
2200.0 ft

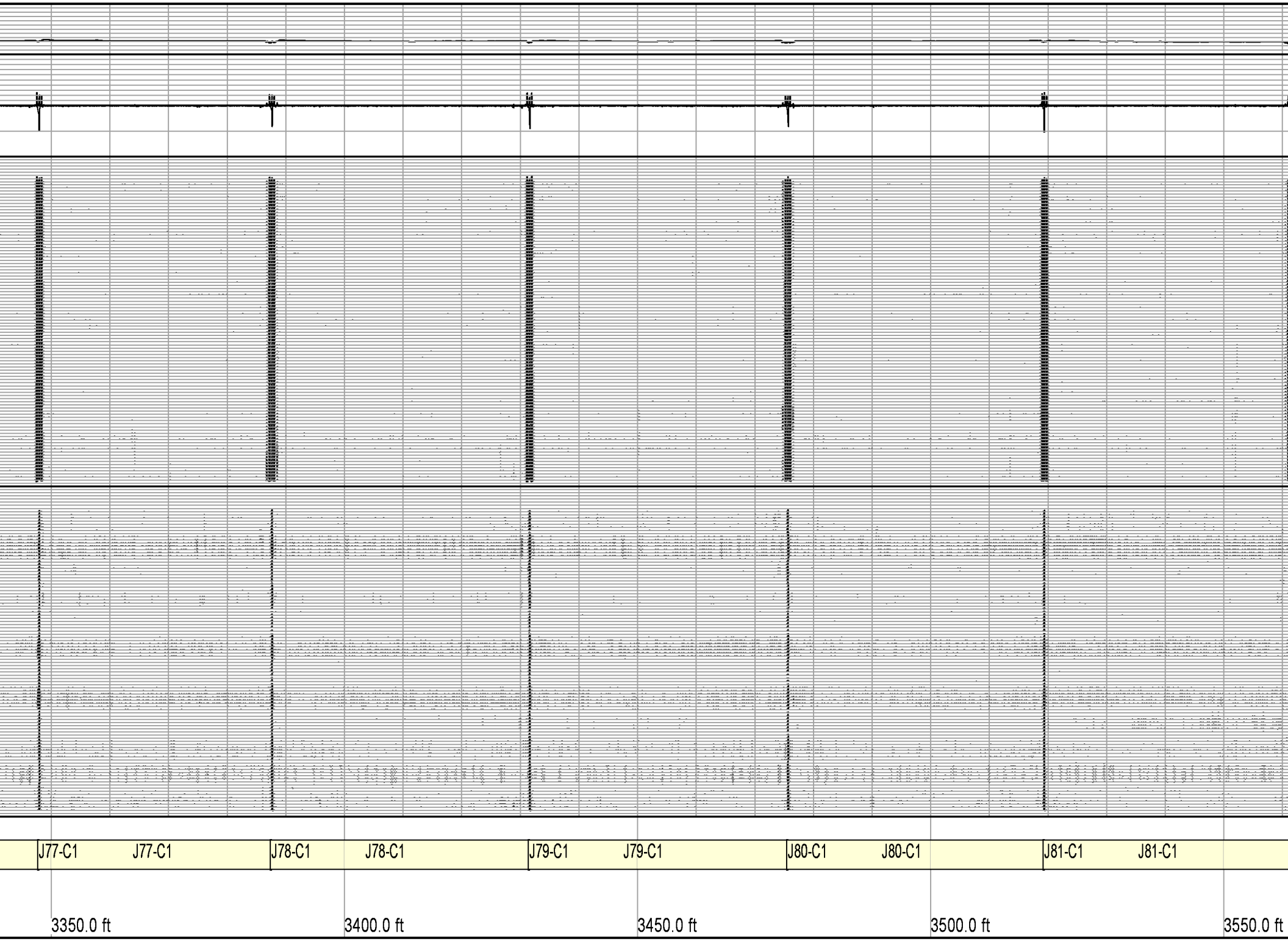

J52-C1
J52-C1
J53-C1
J53-C1
J54-C1
J54-C1
J55-C1
J55-C1
J56-C1
J56-C1
2250.0 ft
2300.0 ft
2350.0 ft
2400.0 ft
2450.0 ft

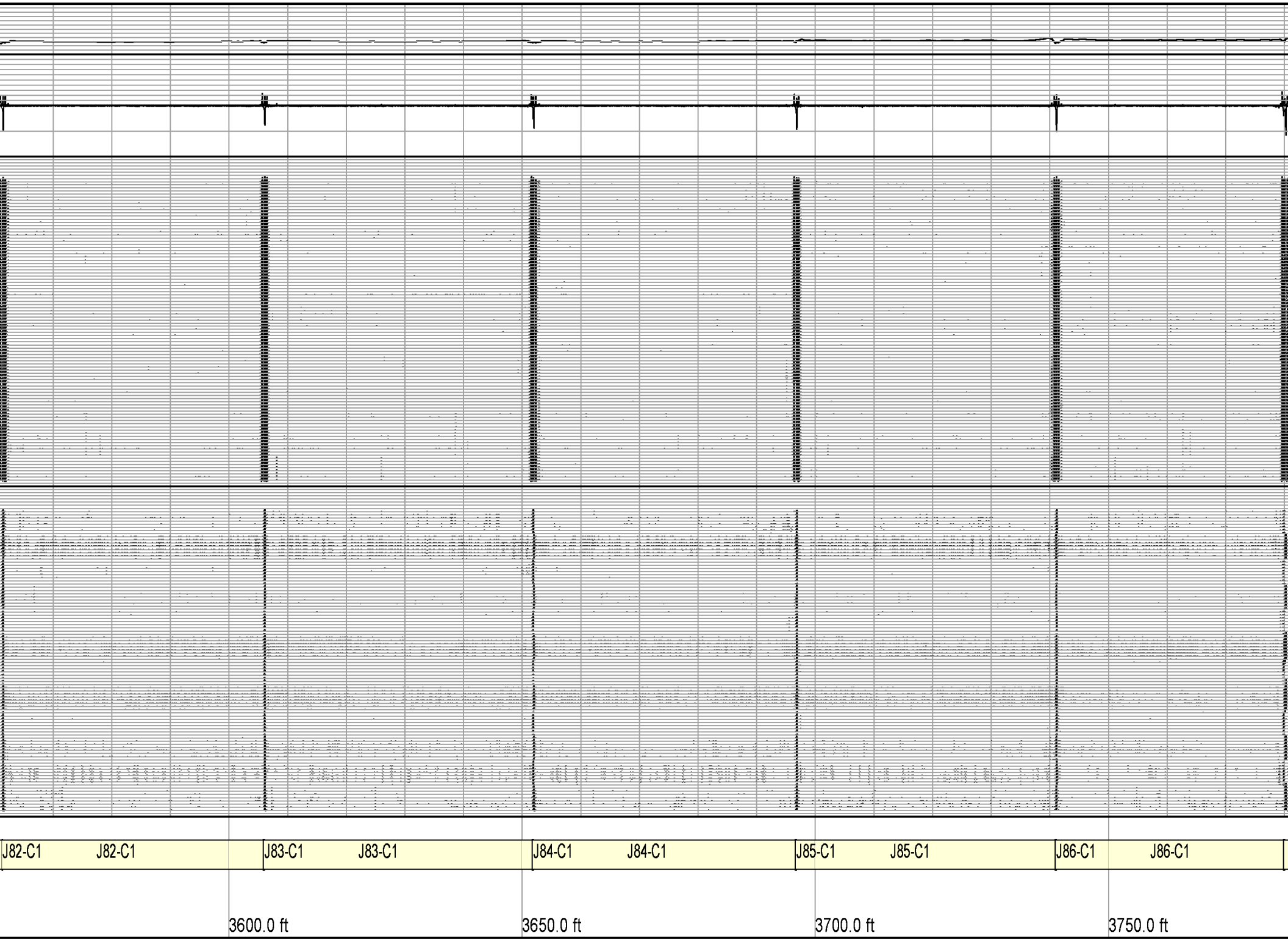

J57-C1
J57-C1
J58-C1
J58-C1
J59-C1
J59-C1
J60-C1
J60-C1
J61-C1
J61-C1
2500.0 ft
2550.0 ft
2600.0 ft
2650.0 ft

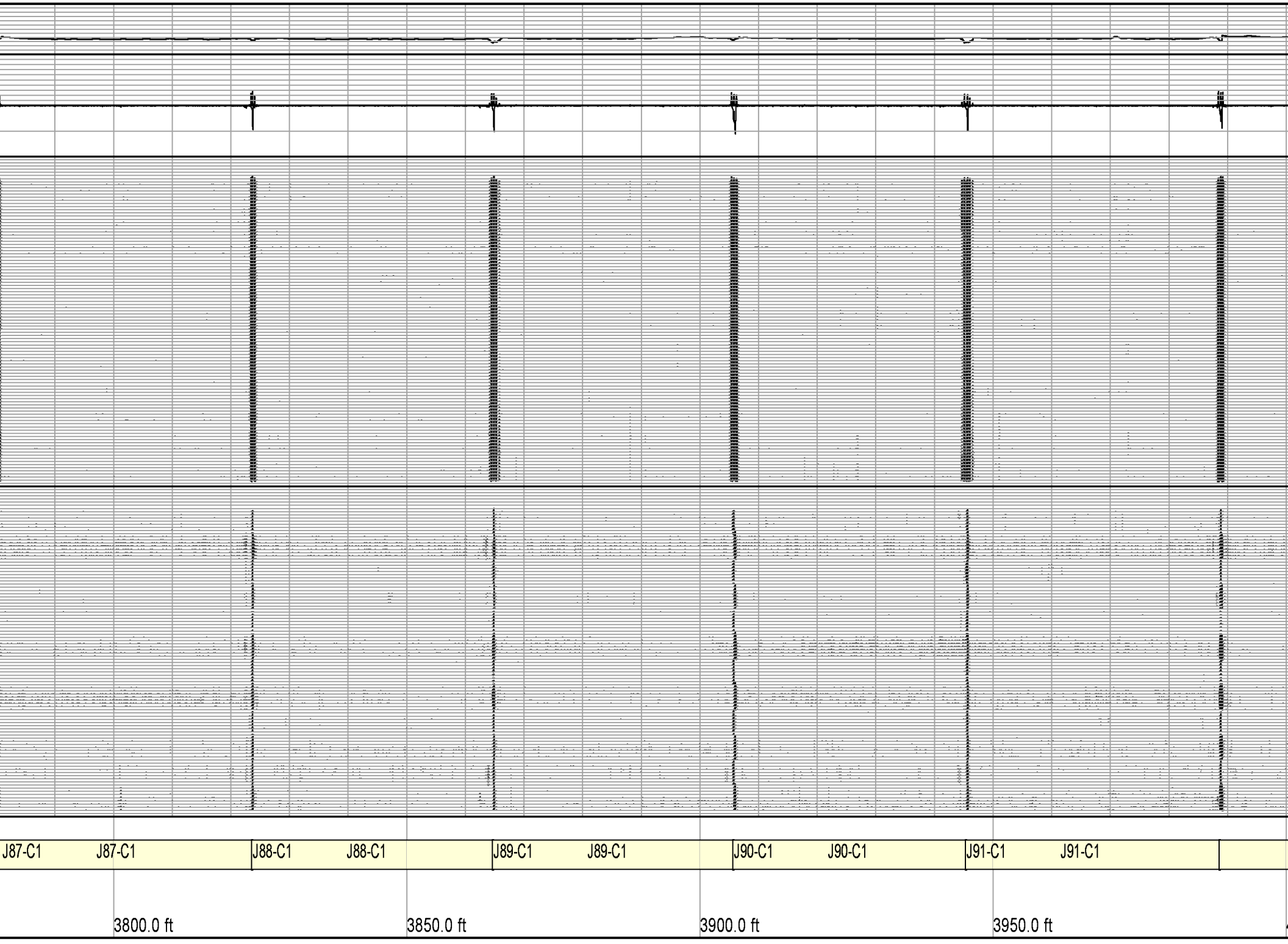

J62-C1
J62-C1
J63-C1
J63-C1
J64-C1
J64-C1
J65-C1
J65-C1
J66-C1
J66-C1
2700.0 ft
2750.0 ft
2800.0 ft
2850.0 ft

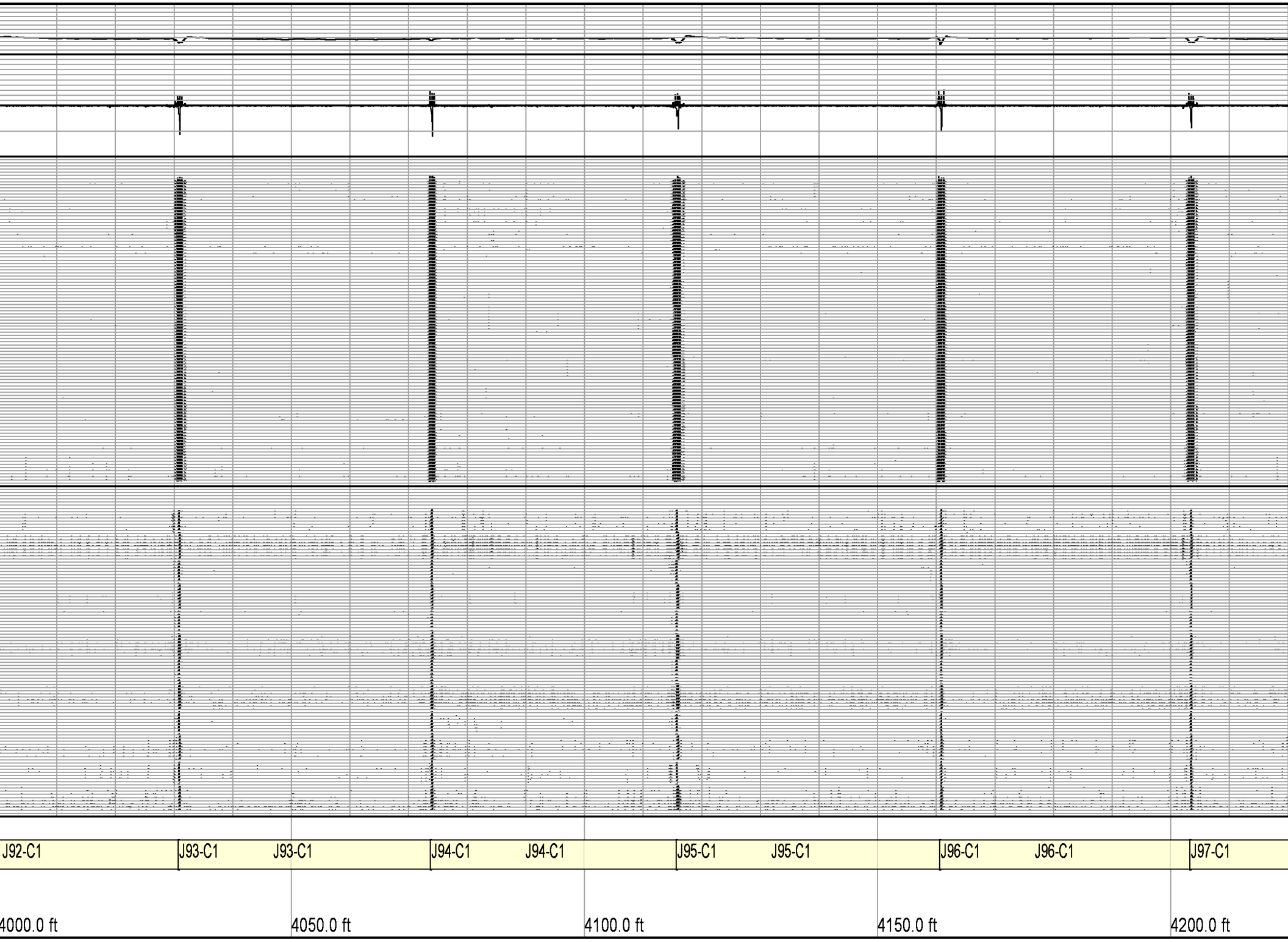

J67-C1
J67-C1
J68-C1
J68-C1
J69-C1
J69-C1
J70-C1
J70-C1
J71-C1
J71-C1
900.0 ft
2950.0 ft
3000.0 ft
3050.0 ft
3100.0 ft

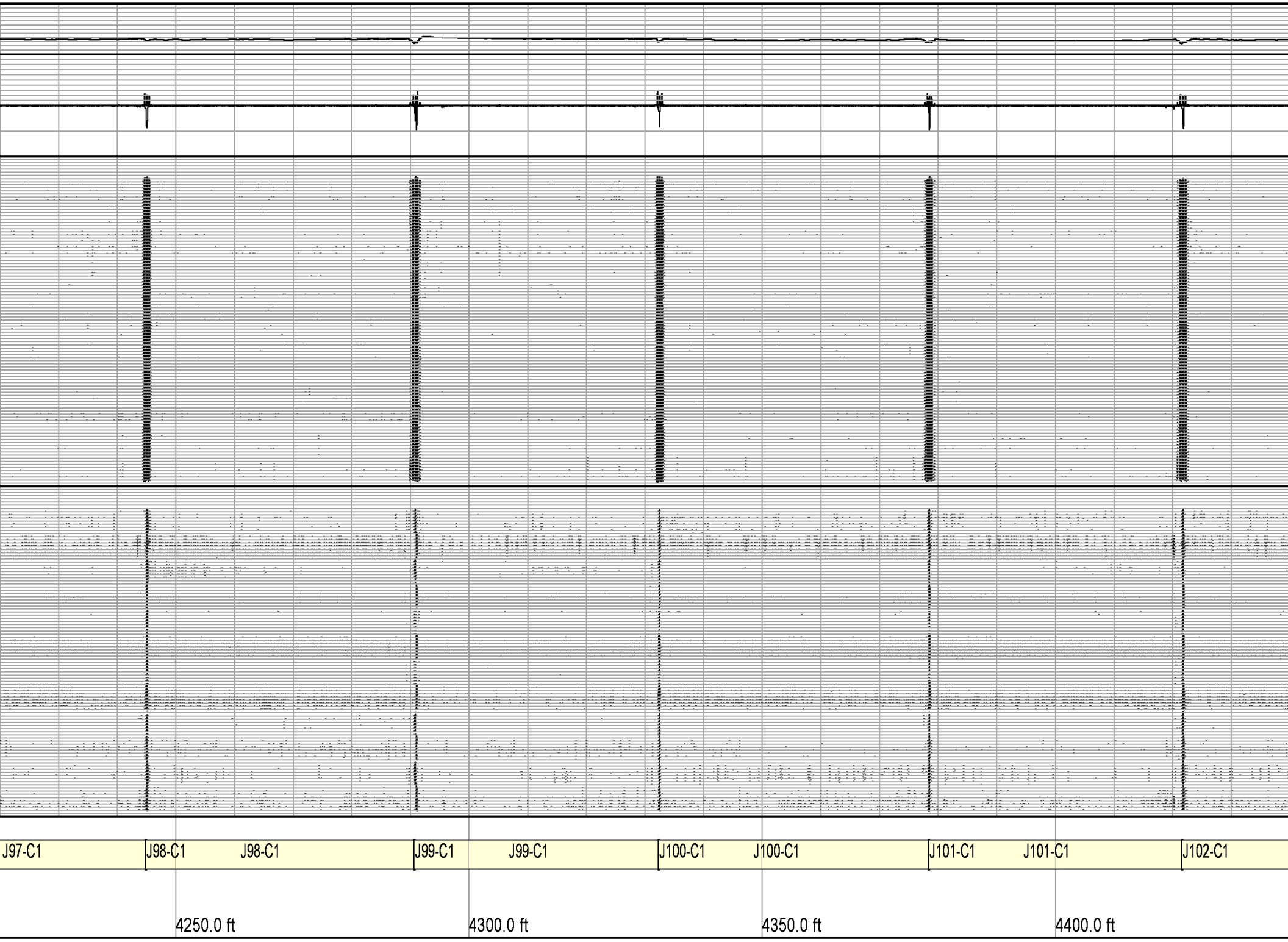

J72-C1
J72-C1
J73-C1
J73-C1
J74-C1
J74-C1
J75-C1
J75-C1
J76-C1
J76-C1
3150.0 ft
3200.0 ft
3250.0 ft
3300.0 ft

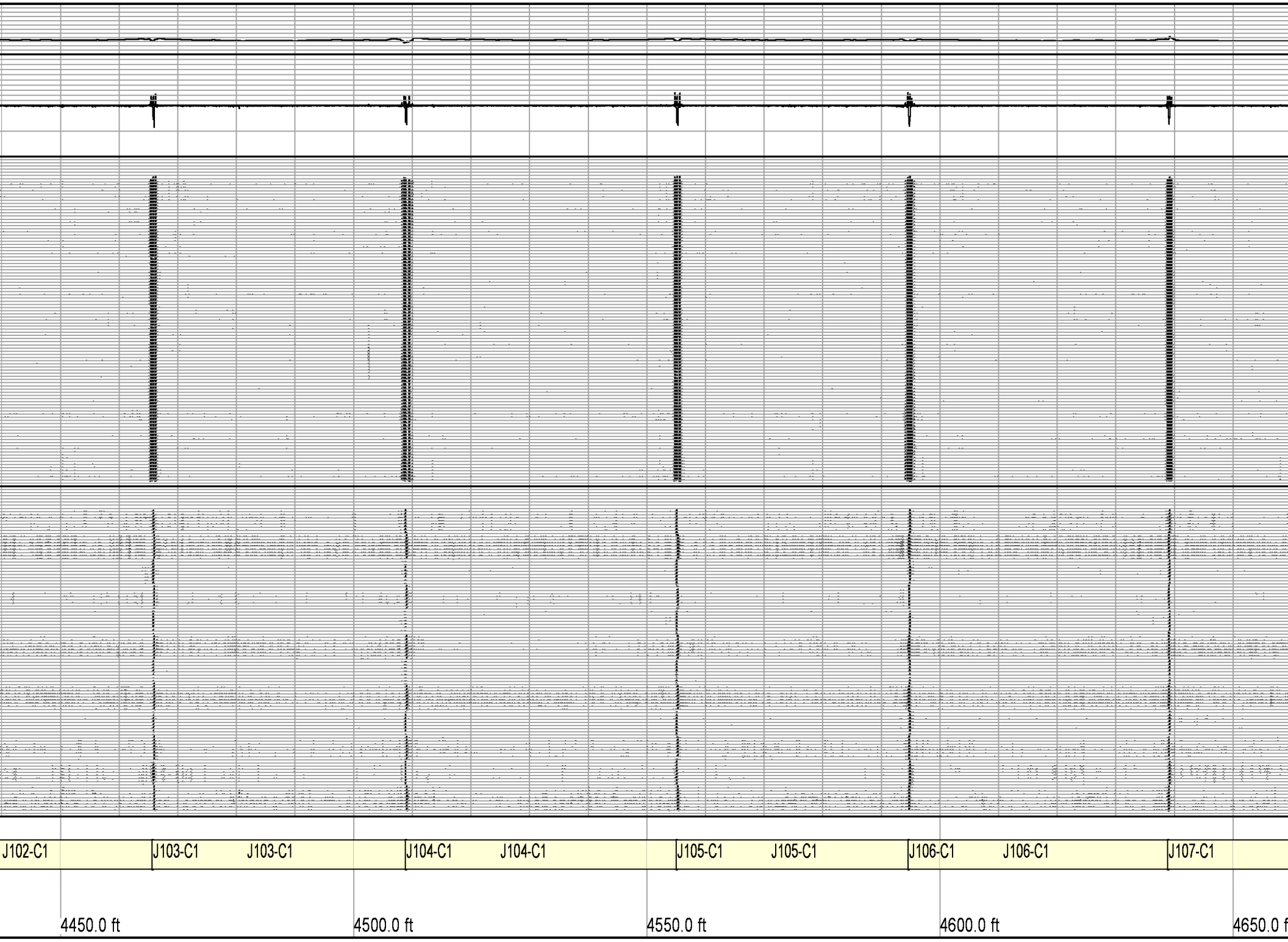

J77-C1
J77-C1
J78-C1
J78-C1
J79-C1
J79-C1
J80-C1
J80-C1
J81-C1
J81-C1
3350.0 ft
3400.0 ft
3450.0 ft
3500.0 ft
3550.0 ft

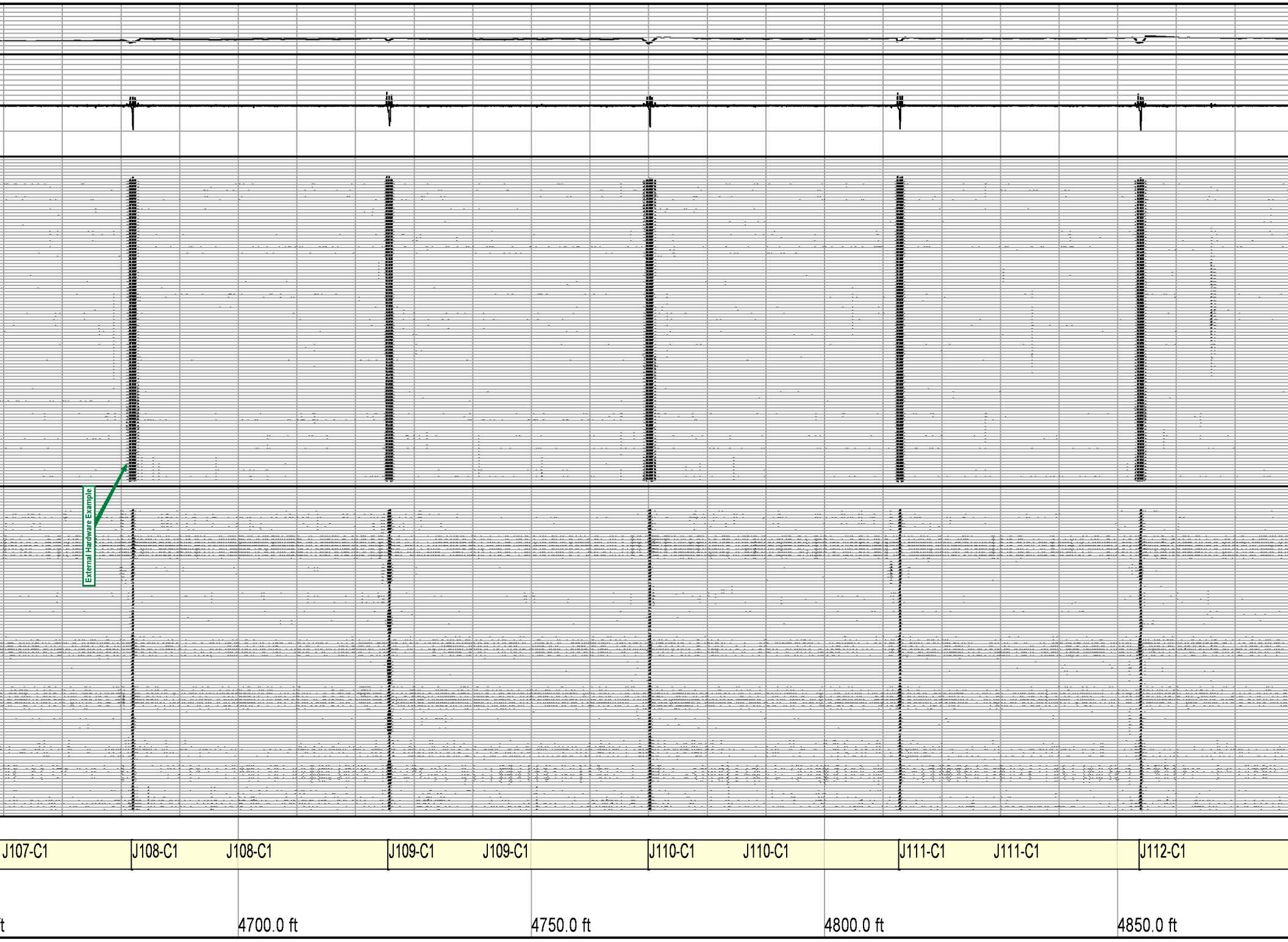

J82-C1
J82-C1
J83-C1
J83-C1
J84-C1
J84-C1
J85-C1
J85-C1
J86-C1
J86-C1
3600.0 ft
3650.0 ft
3700.0 ft
3750.0 ft

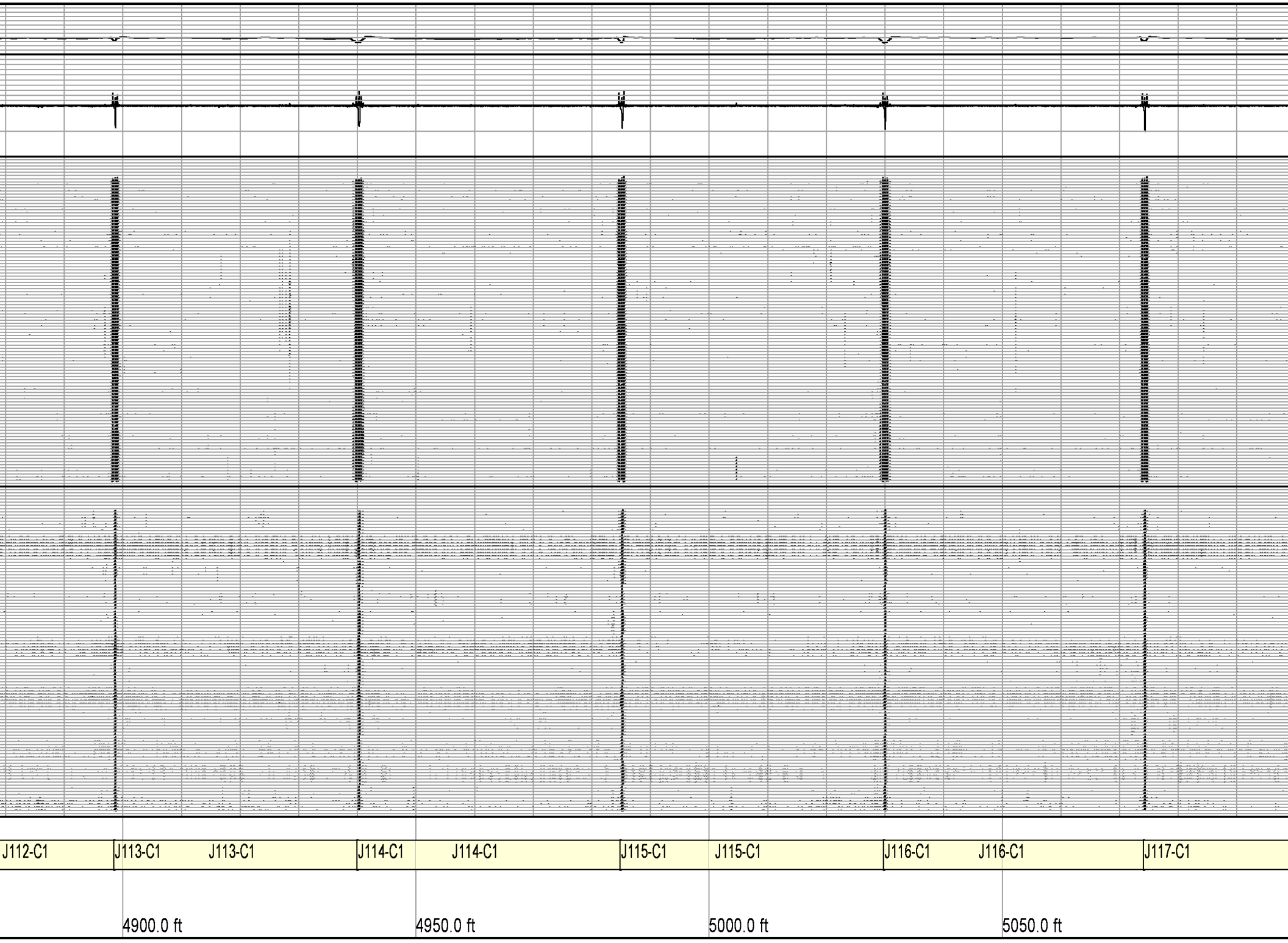

J87-C1
J87-C1
J88-C1
J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
J91-C1
J91-C1
3800.0 ft
3850.0 ft
3900.0 ft
3950.0 ft

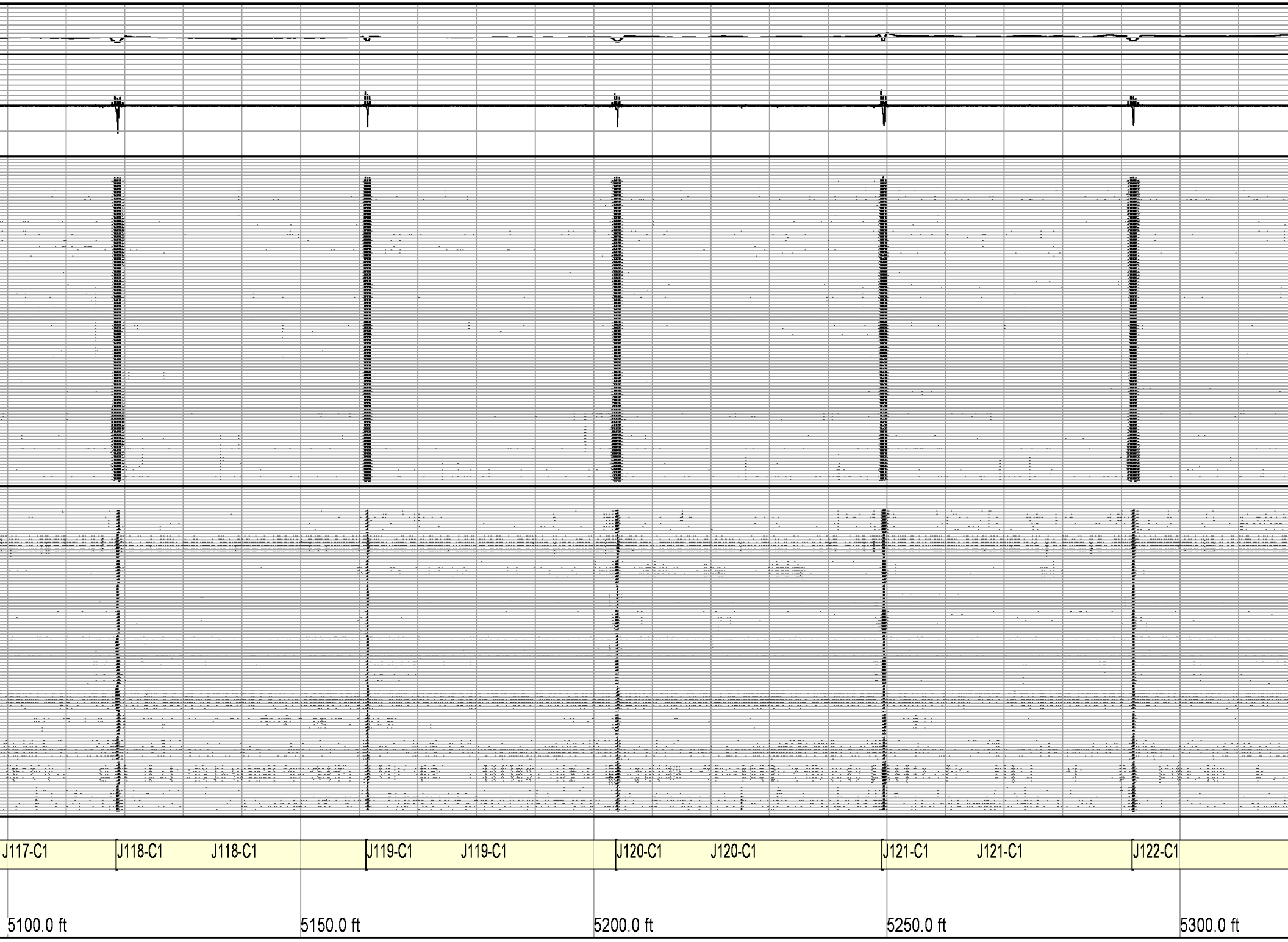

J92-C1
J93-C1
J93-C1
J94-C1
J94-C1
J95-C1
J95-C1
J96-C1
J96-C1
J97-C1
4000.0 ft
4050.0 ft
4100.0 ft
4150.0 ft
4200.0 ft

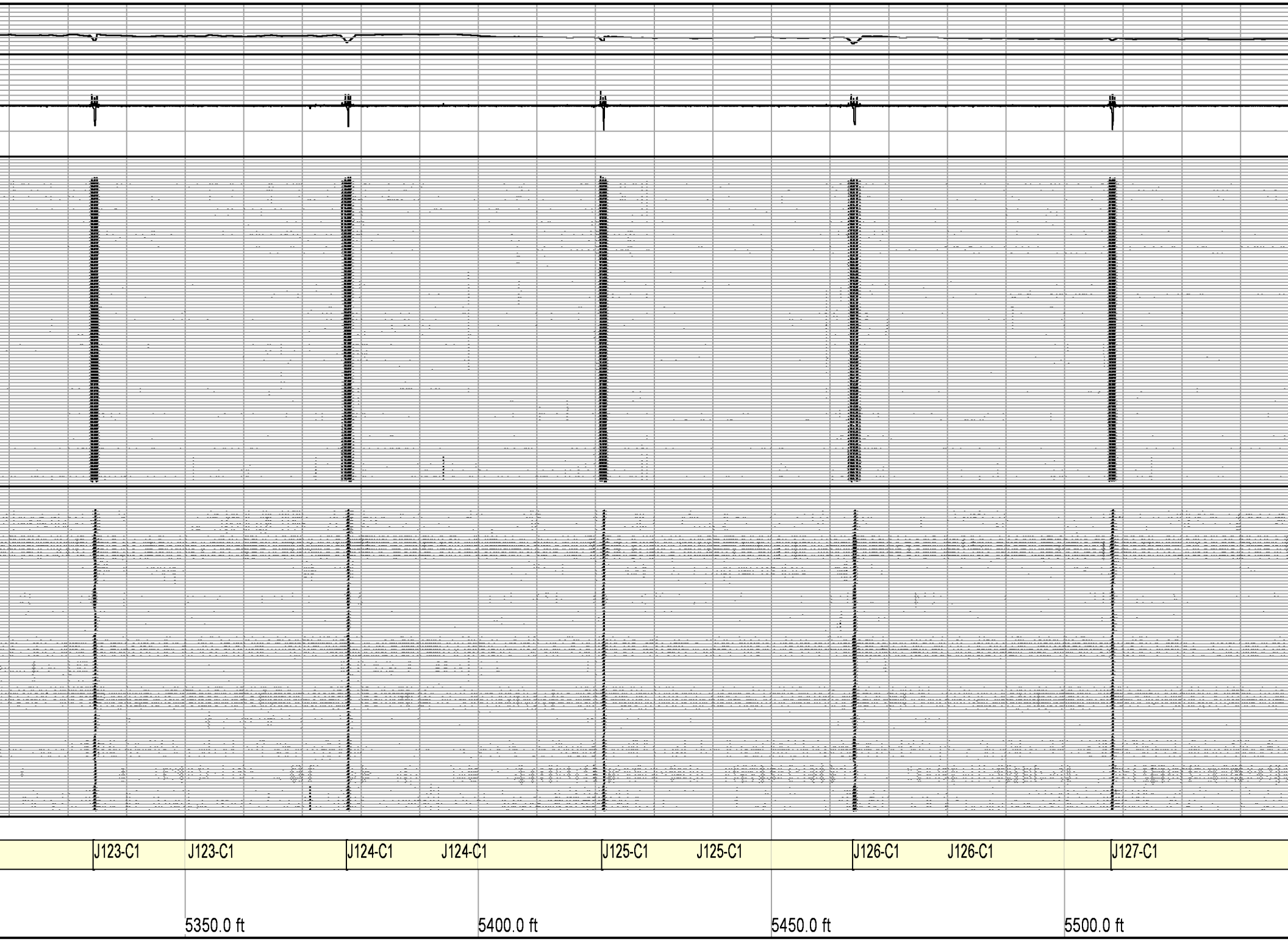

J97-C1
J98-C1
J98-C1
J99-C1
J99-C1
J100-C1
J100-C1
J101-C1
J101-C1
J102-C1
4250.0 ft
4300.0 ft
4350.0 ft
4400.0 ft

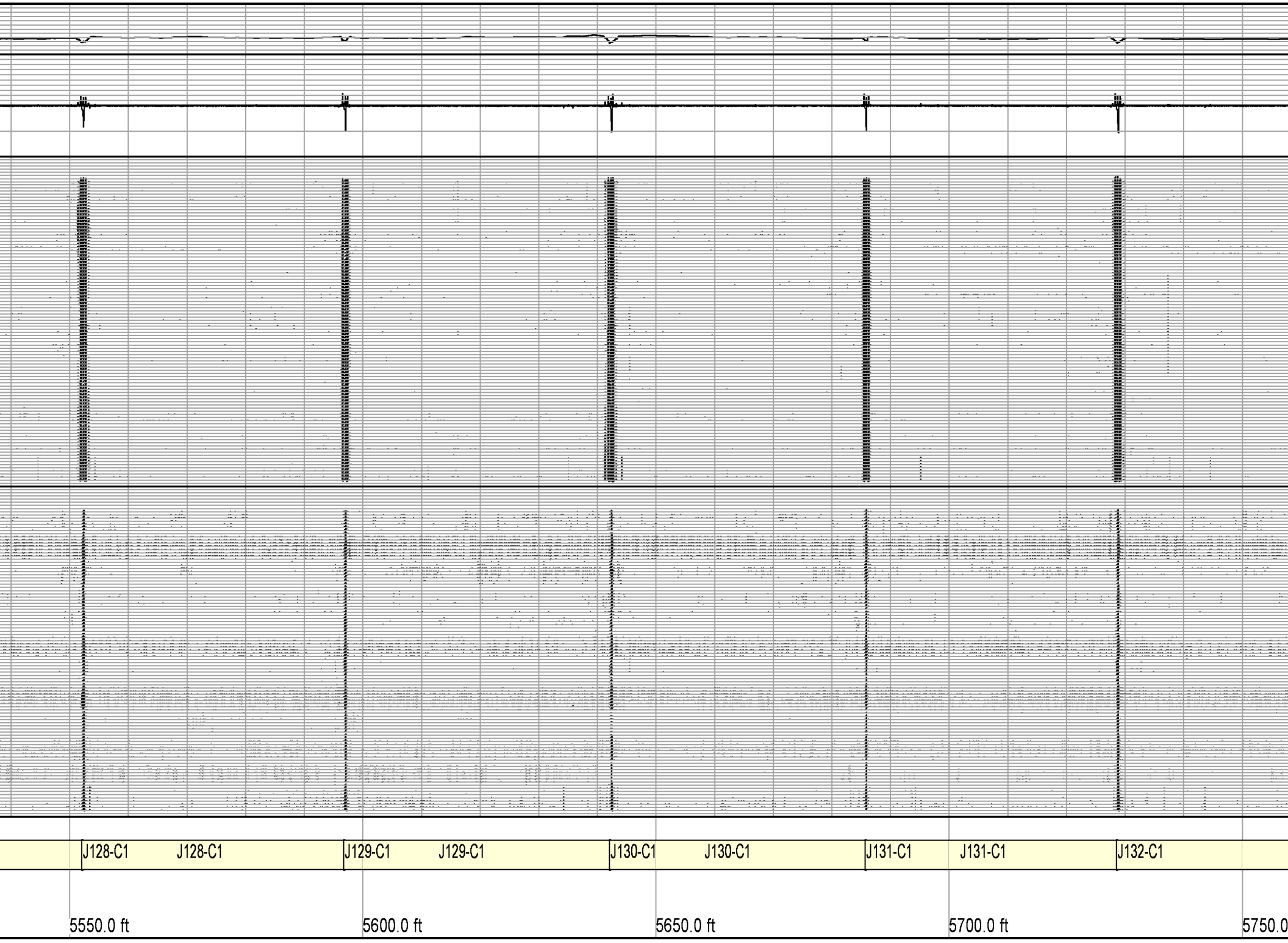

J102-C1
J103-C1
J103-C1
J104-C1
J104-C1
J105-C1
J105-C1
J106-C1
J106-C1
J107-C1
4450.0 ft
4500.0 ft
4550.0 ft
4600.0 ft
4650.0 f

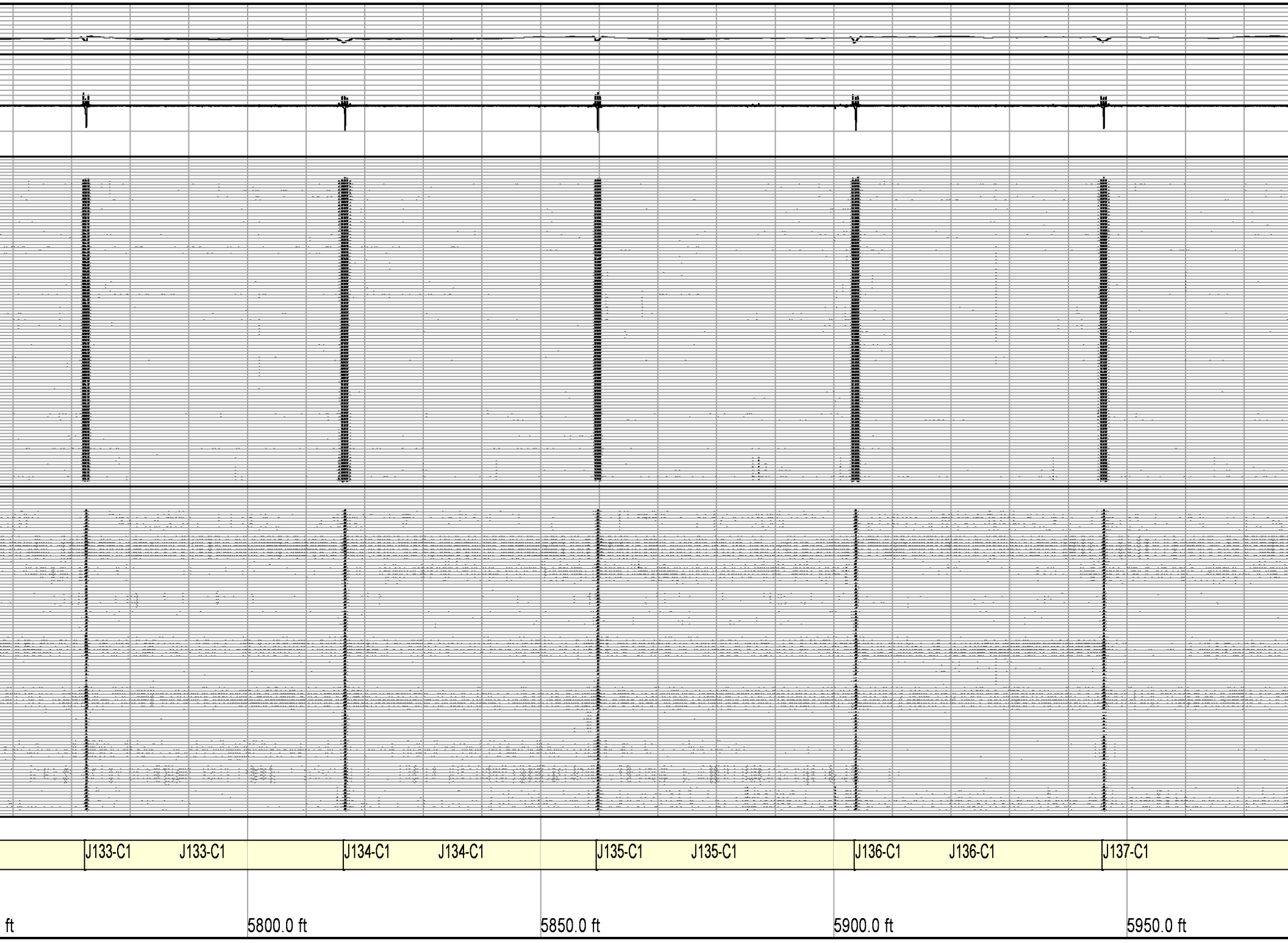

External Hardware Example
J107-C1
J108-C1
J108-C1
J109-C1
J109-C1
J110-C1
J110-C1
J111-C1
J111-C1
J112-C1
ft
4700.0 ft
4750.0 ft
4800.0 ft
4850.0 ft

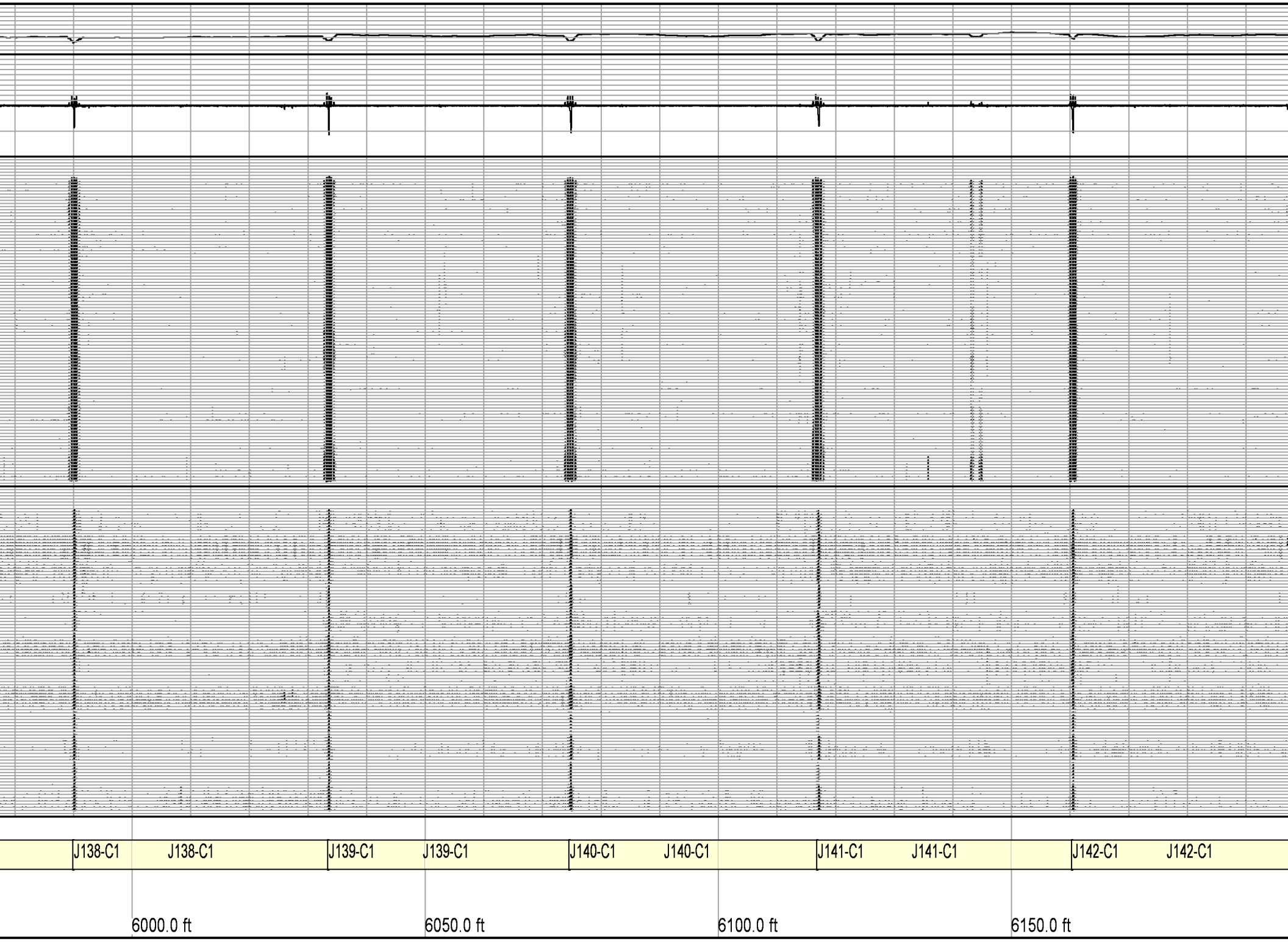

J112-C1
J113-C1
J113-C1
J114-C1
J114-C1
J115-C1
J115-C1
J116-C1
J116-C1
J117-C1
4900.0 ft
4950.0 ft
5000.0 ft
5050.0 ft

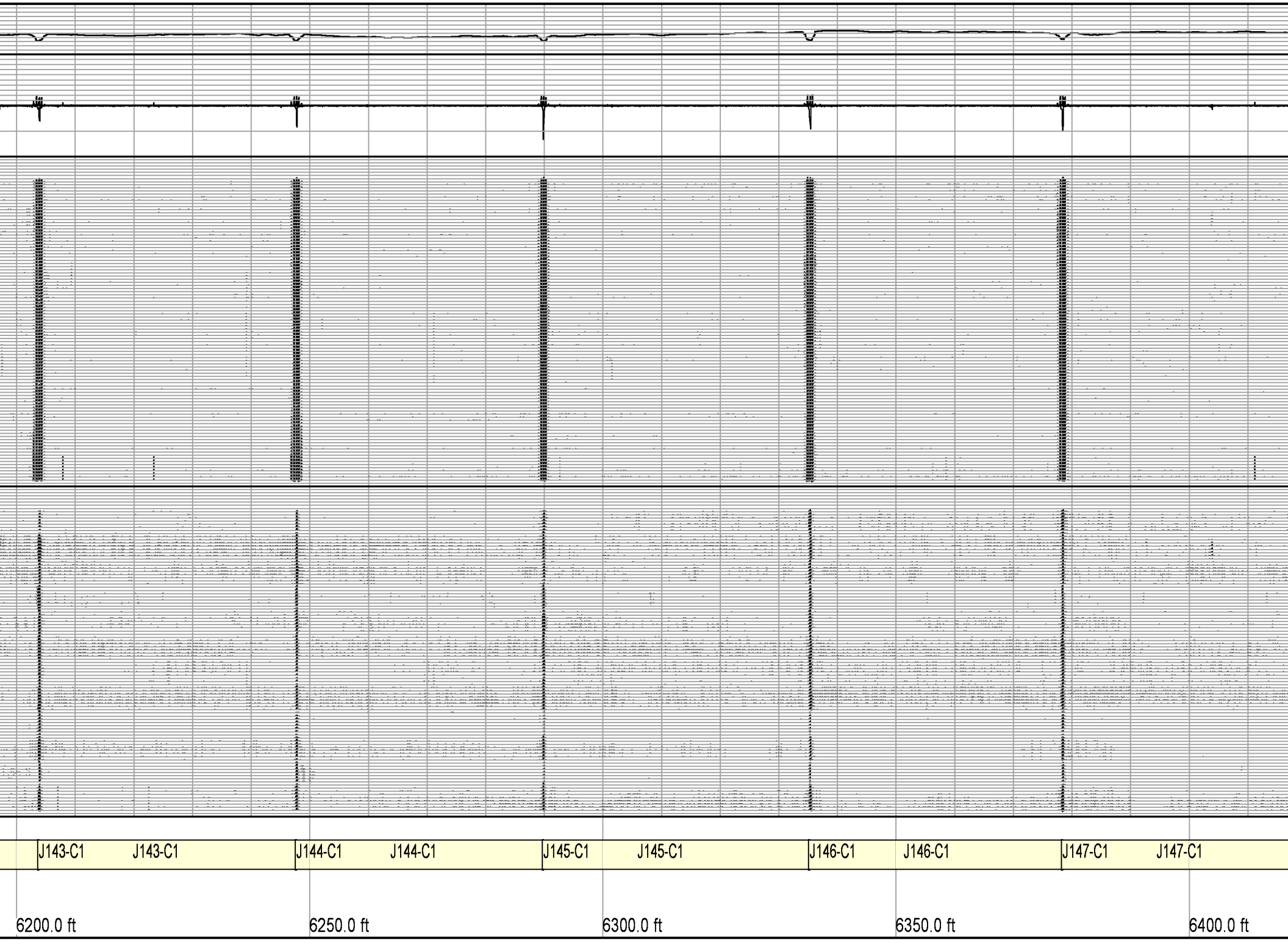

J117-C1
J118-C1
J118-C1
J119-C1
J119-C1
J120-C1
J120-C1
J121-C1
J121-C1
J122-C1
5100.0 ft
5150.0 ft
5200.0 ft
5250.0 ft
5300.0 ft

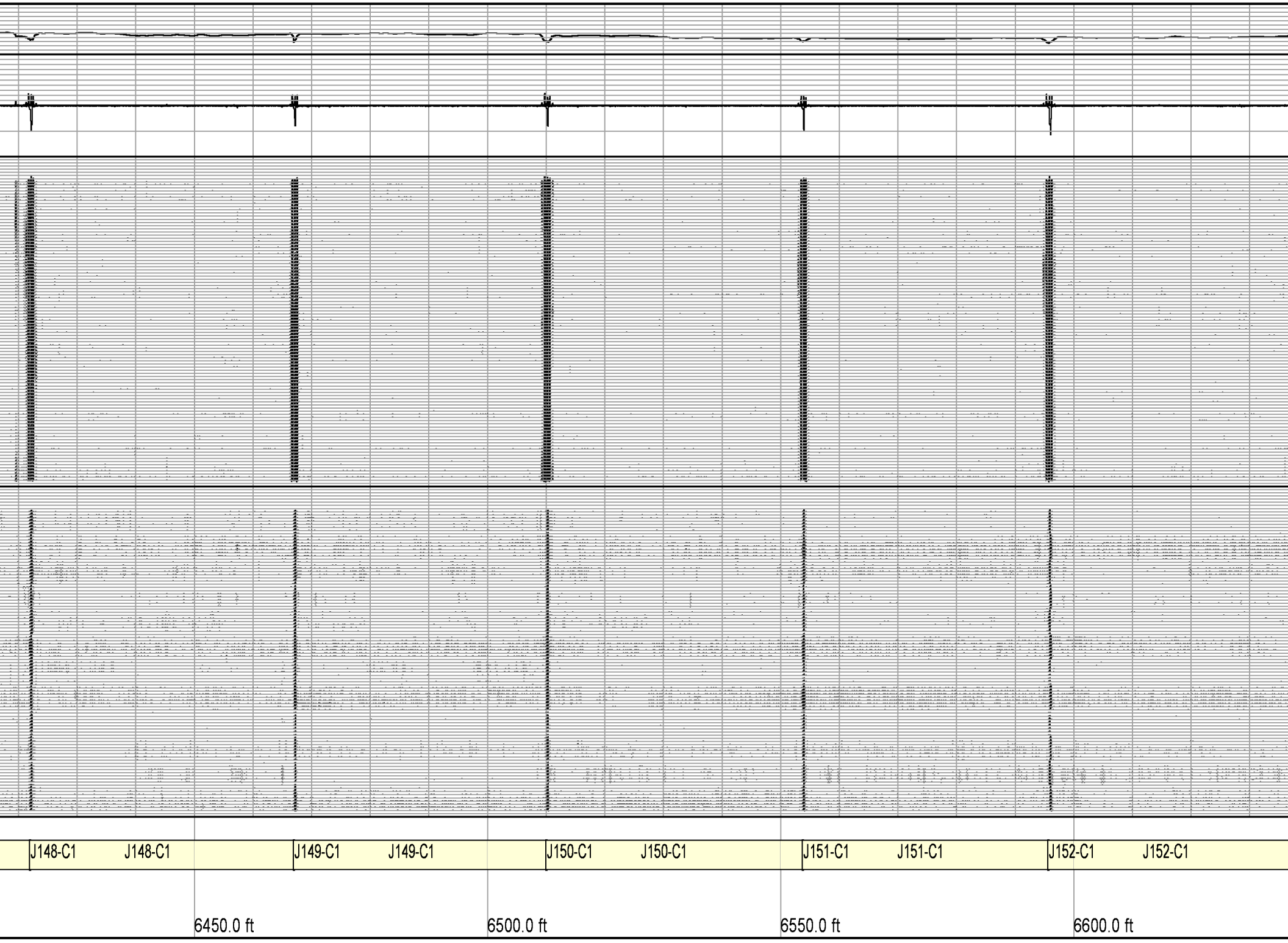

J123-C1
J123-C1
J124-C1
J124-C1
J125-C1
J125-C1
J126-C1
J126-C1
J127-C1
5350.0 ft
5400.0 ft
5450.0 ft
5500.0 ft

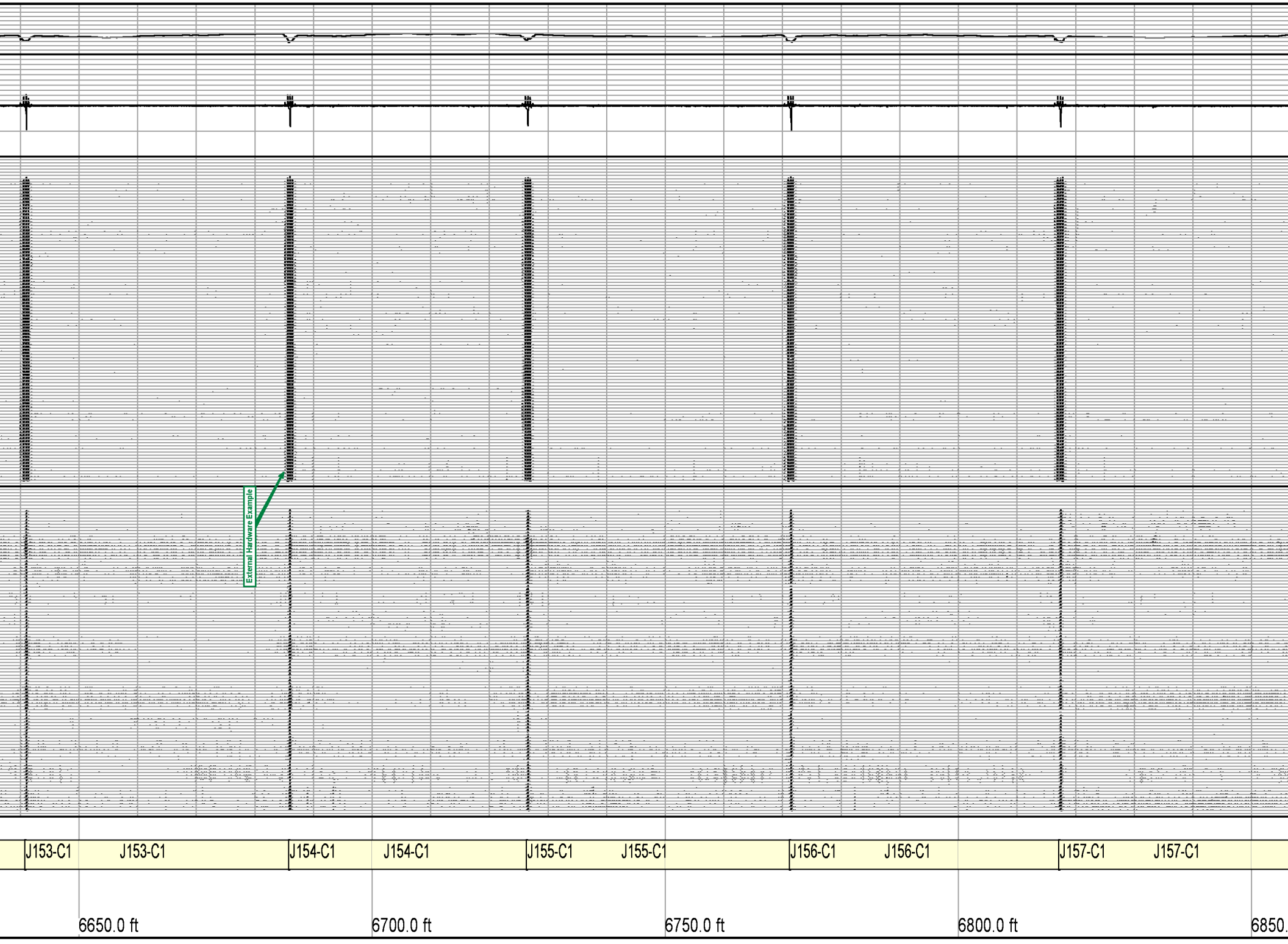

J128-C1
J128-C1
J129-C1
J129-C1
J130-C1
J130-C1
J131-C1
J131-C1
J132-C1
5550.0 ft
5600.0 ft
5650.0 ft
5700.0 ft
5750.0

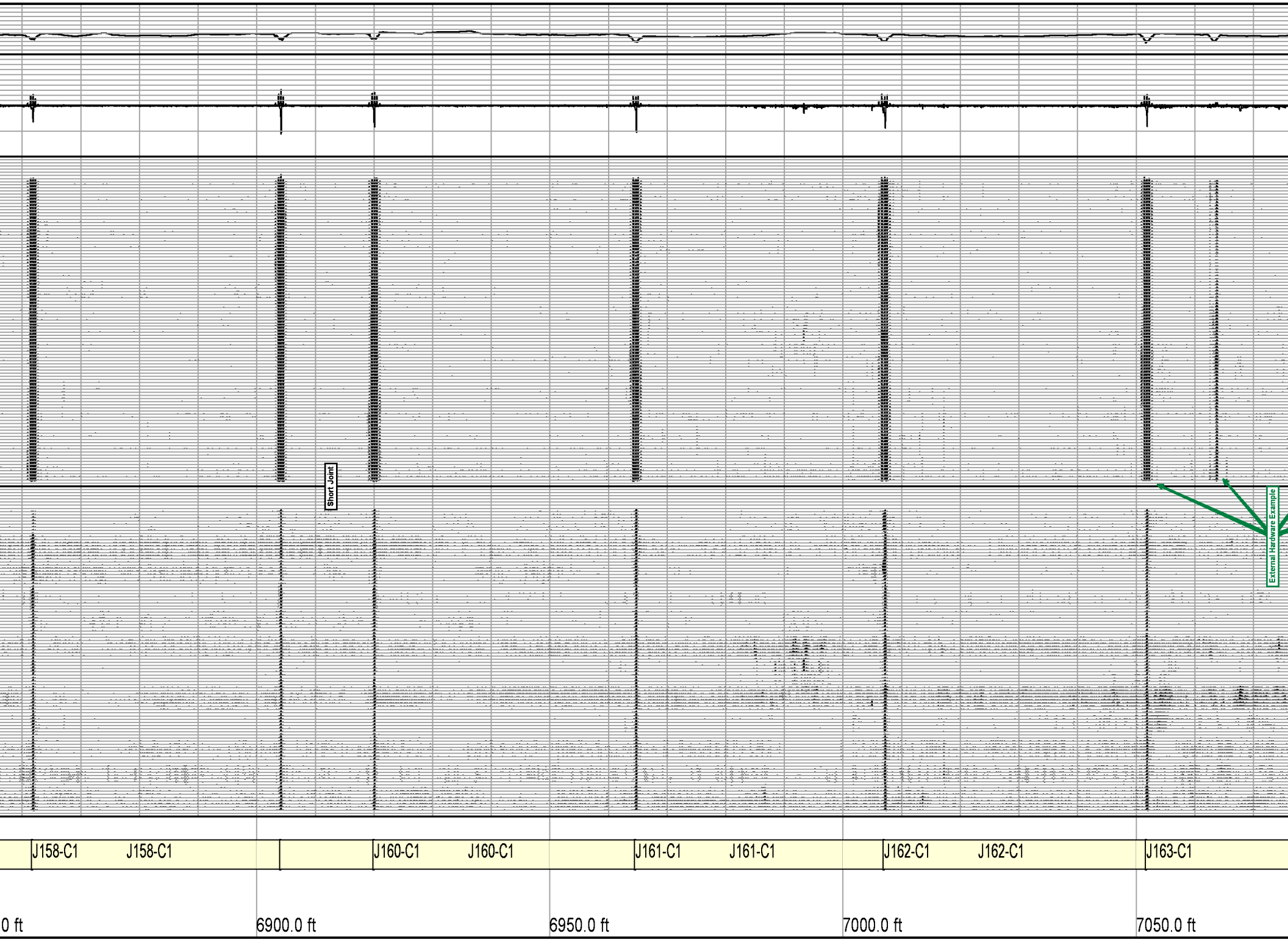

J133-C1
J133-C1
J134-C1
J134-C1
J135-C1
J135-C1
J136-C1
J136-C1
J137-C1
ft
5800.0 ft
5850.0 ft
5900.0 ft
5950.0 ft

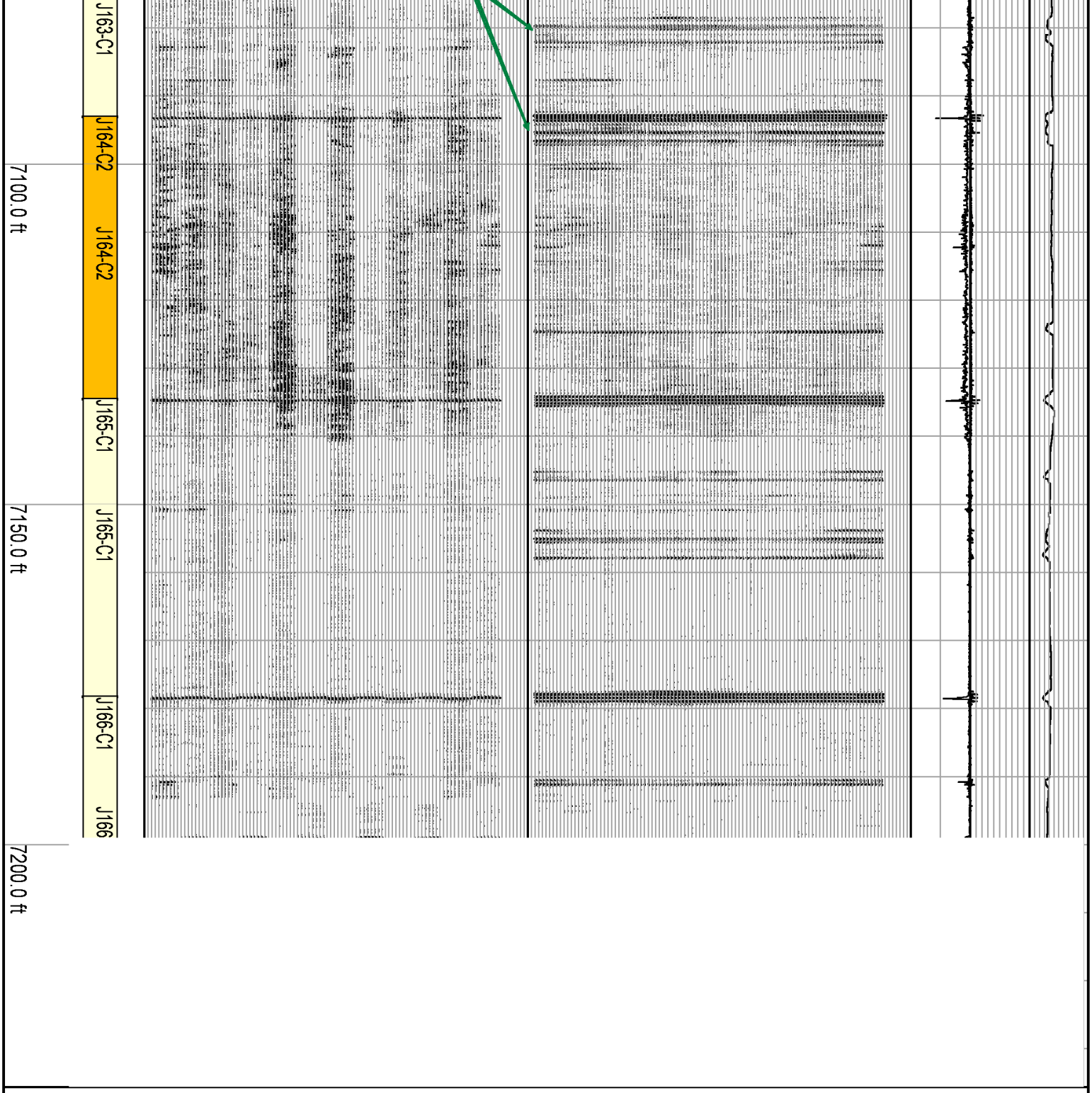

J138-C1
J138-C1
J139-C1
J139-C1
J140-C1
J140-C1
J141-C1
J141-C1
J142-C1
J142-C1
6000.0 ft
6050.0 ft
6100.0 ft
6150.0 ft


J143-C1
J143-C1
J144-C1
J144-C1
J145-C1
J145-C1
J146-C1
J146-C1
J147-C1
J147-C1
6200.0 ft
6250.0 ft
6300.0 ft
6350.0 ft
6400.0 ft


J148-C1
J148-C1
J149-C1
J149-C1
J150-C1
J150-C1
J151-C1
J151-C1
J152-C1
J152-C1
6450.0 ft
6500.0 ft
6550.0 ft
6600.0 ft


External Hardware Example
J153-C1
J153-C1
J154-C1
J154-C1
J155-C1
J155-C1
J156-C1
J156-C1
J157-C1
J157-C1
6650.0 ft
6700.0 ft
6750.0 ft
6800.0 ft
6850.


Short Joint
External Hardware Example
J158-C1
J158-C1
J160-C1
J160-C1
J161-C1
J161-C1
J162-C1
J162-C1
J163-C1
0 ft
6900.0 ft
6950.0 ft
7000.0 ft
7050.0 ft



SOUTHERN CALFORNIA GAS COMPANY PORTER 69E

File 20160831_12381C_RSP_0_0_0_0_0_0_0.mvl

Joint Summary

SOUTHERN CALFORNIA GAS COMPANY
ALISO CANYON
PORTER 69E

Identifier	Start Log Depth	Joint Length	Diameter	Wall Thickness	Weight	Max ML Depth	Max ML Position	Min Burst Pressure	Joint Depth Class
	ft	ft	in	in	lb/ft	%	ft	psi	
JT-1	23.46	20.80	9.625	0.472	47.0	0			1
JT-2	44.26	36.94	9.625	0.472	47.0	0			1
JT-3	81.20	46.30	9.625	0.472	47.0	0			1
JT-4	127.50	43.17	9.625	0.472	47.0	0			1
JT-5	170.67	42.68	9.625	0.472	47.0	0			1

JT-6	213.36	43.00	9.625	0.472	47.0	0			1
JT-7	256.36	44.63	9.625	0.472	47.0	0			1
JT-8	300.99	44.17	9.625	0.472	47.0	0			1
JT-9	345.16	45.70	9.625	0.472	47.0	0			1
JT-10	390.86	44.10	9.625	0.472	47.0	0			1
JT-11	434.96	41.87	9.625	0.472	47.0	0			1
JT-12	476.83	42.86	9.625	0.472	47.0	0			1
JT-13	519.69	44.98	9.625	0.472	47.0	0			1
JT-14	564.67	44.99	9.625	0.472	47.0	0			1
JT-15	609.65	45.76	9.625	0.472	47.0	0			1
JT-16	655.41	45.30	9.625	0.472	47.0	0			1
JT-17	700.72	44.33	9.625	0.472	47.0	0			1
JT-18	745.04	45.77	9.625	0.472	47.0	0			1
JT-19	790.82	41.94	9.625	0.472	47.0	0			1
JT-20	832.76	45.32	9.625	0.472	47.0	0			1
JT-21	878.07	43.67	9.625	0.472	47.0	0			1
JT-22	921.75	43.69	9.625	0.472	47.0	0			1
JT-23	965.43	44.03	9.625	0.472	47.0	0			1
JT-24	1009.47	44.67	9.625	0.472	47.0	0			1
JT-25	1054.14	45.10	9.625	0.472	47.0	0			1
JT-26	1099.23	43.32	9.625	0.472	47.0	0			1
JT-27	1142.56	43.09	9.625	0.472	47.0	0			1
JT-28	1185.64	45.35	9.625	0.472	47.0	0			1
JT-29	1231.00	43.03	9.625	0.472	47.0	0			1
JT-30	1274.03	42.10	9.625	0.472	47.0	0			1
JT-31	1316.13	44.23	9.625	0.472	47.0	0			1
JT-32	1360.36	44.02	9.625	0.472	47.0	0			1
JT-33	1404.38	43.87	9.625	0.472	47.0	0			1
JT-34	1448.25	44.17	9.625	0.472	47.0	0			1
JT-35	1492.42	45.47	9.625	0.472	47.0	0			1
JT-36	1537.89	45.68	9.625	0.472	47.0	0			1
JT-37	1583.58	44.06	9.625	0.472	47.0	0			1
JT-38	1627.64	44.44	9.625	0.472	47.0	0			1
JT-39	1672.08	45.06	9.625	0.472	47.0	0			1
JT-40	1717.14	43.51	9.625	0.472	47.0	19	1736.59	8347	1
JT-41	1760.65	45.07	9.625	0.472	47.0	0			1
JT-42	1805.72	45.74	9.625	0.472	47.0	0			1
JT-43	1851.46	44.17	9.625	0.472	47.0	0			1
JT-44	1895.64	42.44	9.625	0.472	47.0	0			1
JT-45	1938.07	43.00	9.625	0.472	47.0	0			1
JT-46	1981.07	45.66	9.625	0.472	47.0	0			1
JT-47	2026.74	42.54	9.625	0.472	47.0	0			1
JT-48	2069.27	44.34	9.625	0.472	47.0	0			1
JT-49	2113.61	42.79	9.625	0.472	47.0	0			1
JT-50	2156.40	45.54	9.625	0.472	47.0	0			1
JT-51	2201.94	45.76	9.625	0.472	47.0	0			1
JT-52	2247.70	43.73	9.625	0.472	47.0	0			1
JT-53	2291.44	44.20	9.625	0.472	47.0	0			1
JT-54	2335.64	45.42	9.625	0.472	47.0	0			1
JT-55	2381.06	46.17	9.625	0.472	47.0	0			1
JT-56	2427.23	44.56	9.625	0.472	47.0	0			1
JT-57	2471.79	44.86	9.625	0.472	47.0	0			1
JT-58	2516.65	44.00	9.625	0.472	47.0	0			1
JT-59	2560.65	45.41	9.625	0.472	47.0	0			1
JT-60	2606.06	43.71	9.625	0.472	47.0	0			1
JT-61	2649.77	43.50	9.625	0.472	47.0	0			1
JT-62	2693.27	41.92	9.625	0.472	47.0	0			1
JT-63	2735.19	40.51	9.625	0.472	47.0	0			1
JT-64	2775.70	45.83	9.625	0.472	47.0	0			1
JT-65	2821.52	45.41	9.625	0.472	47.0	0			1
JT-66	2866.93	44.71	9.625	0.472	47.0	0			1
JT-67	2911.64	45.72	9.625	0.472	47.0	0			1
JT-68	2957.37	42.56	9.625	0.472	47.0	0			1
JT-69	2999.93	44.06	9.625	0.472	47.0	0			1
JT-70	3043.99	43.32	9.625	0.472	47.0	0			1
JT-71	3087.30	41.60	9.625	0.472	47.0	0			1
JT-72	3128.91	43.93	9.625	0.472	47.0	0			1
JT-73	3172.84	43.08	9.625	0.472	47.0	0			1
JT-74	3215.92	45.37	9.625	0.472	47.0	0			1
JT-75	3261.29	45.23	9.625	0.472	47.0	0			1
JT-76	3306.52	41.32	9.625	0.472	47.0	0			1
JT-77	3347.84	39.67	9.625	0.472	47.0	0			1
JT-78	3387.51	43.95	9.625	0.472	47.0	0			1
JT-79	3431.46	44.07	9.625	0.472	47.0	0			1
JT-80	3475.53	43.75	9.625	0.472	47.0	0			1
JT-81	3519.28	42.04	9.625	0.472	47.0	0			1
JT-82	3561.32	44.65	9.625	0.472	47.0	0			1
JT-83	3605.97	45.85	9.625	0.472	47.0	0			1
JT-84	3651.82	44.86	9.625	0.472	47.0	0			1
JT-85	3696.68	44.35	9.625	0.472	47.0	0			1
JT-86	3741.03	38.98	9.625	0.472	47.0	0			1
JT-87	3780.01	43.63	9.625	0.472	47.0	0			1

JT-88	3823.64	41.11	9.625	0.472	47.0	0			1
JT-89	3864.75	40.96	9.625	0.472	47.0	0			1
JT-90	3905.71	39.73	9.625	0.472	47.0	0			1
JT-91	3945.44	43.27	9.625	0.472	47.0	0			1
JT-92	3988.71	42.15	9.625	0.472	47.0	0			1
JT-93	4030.86	43.00	9.625	0.472	47.0	0			1
JT-94	4073.86	41.90	9.625	0.472	47.0	0			1
JT-95	4115.76	44.96	9.625	0.472	47.0	0			1
JT-96	4160.73	42.64	9.625	0.472	47.0	0			1
JT-97	4203.36	41.59	9.625	0.472	47.0	0			1
JT-98	4244.95	45.77	9.625	0.472	47.0	0			1
JT-99	4290.72	41.67	9.625	0.472	47.0	0			1
JT-100	4332.40	46.04	9.625	0.472	47.0	0			1
JT-101	4378.44	43.23	9.625	0.472	47.0	0			1
JT-102	4421.67	44.06	9.625	0.472	47.0	0			1
JT-103	4465.73	43.21	9.625	0.472	47.0	0			1
JT-104	4508.94	46.17	9.625	0.472	47.0	0			1
JT-105	4555.11	39.60	9.625	0.472	47.0	0			1
JT-106	4594.71	44.28	9.625	0.472	47.0	0			1
JT-107	4638.99	42.91	9.625	0.472	47.0	0			1
JT-108	4681.90	43.72	9.625	0.472	47.0	0			1
JT-109	4725.62	44.44	9.625	0.472	47.0	0			1
JT-110	4770.07	42.69	9.625	0.472	47.0	0			1
JT-111	4812.75	41.03	9.625	0.472	47.0	0			1
JT-112	4853.78	44.80	9.625	0.472	47.0	0			1
JT-113	4898.58	41.52	9.625	0.472	47.0	0			1
JT-114	4940.09	44.84	9.625	0.472	47.0	0			1
JT-115	4984.94	44.95	9.625	0.472	47.0	0			1
JT-116	5029.89	44.27	9.625	0.472	47.0	0			1
JT-117	5074.17	44.49	9.625	0.472	47.0	0			1
JT-118	5118.65	42.65	9.625	0.472	47.0	0			1
JT-119	5161.30	42.59	9.625	0.472	47.0	0			1
JT-120	5203.89	45.41	9.625	0.472	47.0	0			1
JT-121	5249.30	42.63	9.625	0.472	47.0	0			1
JT-122	5291.93	42.49	9.625	0.472	47.0	0			1
JT-123	5334.42	43.24	9.625	0.472	47.0	0			1
JT-124	5377.66	43.51	9.625	0.472	47.0	0			1
JT-125	5421.17	42.78	9.625	0.472	47.0	0			1
JT-126	5463.95	44.09	9.625	0.472	47.0	0			1
JT-127	5508.04	44.15	9.625	0.472	47.0	0			1
JT-128	5552.19	44.65	9.625	0.472	47.0	0			1
JT-129	5596.84	45.32	9.625	0.472	47.0	0			1
JT-130	5642.16	43.60	9.625	0.472	47.0	0			1
JT-131	5685.76	42.88	9.625	0.472	47.0	0			1
JT-132	5728.64	43.68	9.625	0.472	47.0	0			1
JT-133	5772.32	44.15	9.625	0.472	47.0	0			1
JT-134	5816.47	43.17	9.625	0.472	47.0	0			1
JT-135	5859.64	43.96	9.625	0.472	47.0	0			1
JT-136	5903.60	42.31	9.625	0.472	47.0	0			1
JT-137	5945.91	44.11	9.625	0.472	47.0	0			1
JT-138	5990.02	43.48	9.625	0.472	47.0	0			1
JT-139	6033.49	41.12	9.625	0.472	47.0	0			1
JT-140	6074.62	42.29	9.625	0.472	47.0	0			1
JT-141	6116.91	43.45	9.625	0.472	47.0	0			1
JT-142	6160.37	43.35	9.625	0.472	47.0	0			1
JT-143	6203.72	43.91	9.625	0.472	47.0	0			1
JT-144	6247.63	42.13	9.625	0.472	47.0	0			1
JT-145	6289.76	45.45	9.625	0.472	47.0	0			1
JT-146	6335.21	43.10	9.625	0.472	47.0	0			1
JT-147	6378.32	43.71	9.625	0.472	47.0	0			1
JT-148	6422.02	45.00	9.625	0.472	47.0	0			1
JT-149	6467.02	43.08	9.625	0.472	47.0	0			1
JT-150	6510.10	43.70	9.625	0.472	47.0	0			1
JT-151	6553.80	41.88	9.625	0.472	47.0	0			1
JT-152	6595.68	45.20	9.625	0.472	47.0	0			1
JT-153	6640.88	45.02	9.625	0.472	47.0	0			1
JT-154	6685.90	40.54	9.625	0.472	47.0	0			1
JT-155	6726.44	44.83	9.625	0.472	47.0	0			1
JT-156	6771.27	45.98	9.625	0.472	47.0	0			1
JT-157	6817.25	44.48	9.625	0.472	47.0	0			1
JT-158	6861.73	42.28	9.625	0.472	47.0	0			1
JT-159	6904.01	15.97	9.625	0.472	47.0	0			1
JT-160	6919.98	44.56	9.625	0.472	47.0	0			1
JT-161	6964.54	42.43	9.625	0.472	47.0	0			1
JT-162	7006.97	44.74	9.625	0.472	47.0	0			1
JT-163	7051.71	41.43	9.625	0.472	47.0	0			1
JT-164	7093.14	41.45	9.625	0.472	47.0	27	7094.74	8478	2
JT-165	7134.58	43.74	9.625	0.472	47.0	0			1
JT-166	7178.33	15.31	9.625	0.472	47.0	0			1