HR Vertilog

Magnetic Flux Leakage Inspection

Advanced Analysis

Company	Southern California Gas Company
Well	Porter 25R
Field	Aliso Canyon
County	Los Angeles
State	California

Location:
N/A
N/A

Section 28	Township 03N	Range 16W	

Date	Apr. 28, 2016
Service Order	US107147
Recorded by	Sidney Gornto
Witnessed by	N/A
API Serial No.	04-037-00712

Permanent Datum:	G.L.	Elevation: 2680.440	ft.	Depth	8122.000
Log Measured From:	K.B.	24.000	ft. above Perm. Datum	Btm. Log Interval	7642.810
Drilling Measured From:	K.B.	24.000	ft. above Perm. Datum	Top Log Interval	27.210
				Fluid Type	KCL

Casing Data

Size	Weight	Grade	From	To	Length
9 5/8 inch	47.0 lb/ft	N80 (HR Std)	Surface	7802	7802.0
13 3/8 inch	54.5 lb/ft	J-55	Surface	825	825.0
5 1/2 inch	17 lb/ft	K-55	7691	8122	431.0

Software Version 6.0.0.0

Equipment Data

Run	Trip	Tool Type	Tool Series	Serial Number	Position
1	1	HRVRT MFL	4997	PA10409819	LOWER
1	1	HRVRT MFL	4997	QA10409827	UPPER
1	1	HRVRT TELEM	4993		

Calibration Data

Calibration File Name	4997-9-001-PA10409819-U.CAL
Date of Calibration	05/04/2015 14:03
Calibration Identifier	B067D5B8-C234-468C-82A0-CD1751E099F9

Tool Number	4997-00
Calibrator Number	4997-9-001
Calibrator Size	(9-5/8 In - 238 mm)
Calibration Source File	20150504_072254_MEM.MVL
Calibration Software Rev	Microvision 32-bit 7.3.2.2
Comment	RMA1200

Calibration Data

Calibration File Name	4997-9-001-QA10409827-L.CAL
Date of Calibration	05/04/2015 14:03
Calibration Identifier	B067D5B8-C234-468C-82A0-CD1751E099F9
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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.

Remarks

Interpretation

HRVRT analysis was depth correlated to B.H. ICAL logged 28 Apr 2016.

The top joint and joints JT-8, JT-75 and JT-187 are short joints.

Multiple external class I metal loss features due to general corrosion were indicated from 29 ft. to 36.3 feet.

28.34 ft	Hardware - External Casing Head Response.
821.59 ft	Hardware - Bottom of 13 3/8" External Casing.
2211.35 ft	Hardware - Multiple Centralizers can be seen throughout the logged interval, see the Feature List for a complete centralizer listing.

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	Type	ID/OD
1	27.21	42.52	15.31	Class 1	17.0%	36.89	ISO	OD
2	42.52	87.14	44.62	Class 1	-	-	-	-
3	87.14	131.94	44.80	Class 1	-	-	-	-
4	131.94	177.01	45.07	Class 1	-	-	-	-
5	177.01	218.25	41.24	Class 1	-	-	-	-
6	218.25	262.12	43.87	Class 1	-	-	-	-

7	262.12	303.82	41.70	Class	1	-	-	-	-
8	303.82	315.55	11.73	Class	1	-	-	-	-
9	315.55	352.95	37.40	Class	1	-	-	-	-
10	352.95	392.81	39.86	Class	1	-	-	-	-
11	392.81	432.77	39.96	Class	1	-	-	-	-
12	432.77	472.56	39.79	Class	1	-	-	-	-
13	472.56	512.46	39.90	Class	1	-	-	-	-
14	512.46	552.26	39.80	Class	1	-	-	-	-
15	552.26	590.86	38.60	Class	1	-	-	-	-
16	590.86	630.61	39.75	Class	1	-	-	-	-
17	630.61	669.14	38.53	Class	1	-	-	-	-
18	669.14	709.01	39.87	Class	1	-	-	-	-
19	709.01	748.26	39.25	Class	1	-	-	-	-
20	748.26	788.14	39.88	Class	1	-	-	-	-
21	788.14	828.04	39.90	Class	1	-	-	-	-
22	828.04	867.93	39.89	Class	1	-	-	-	-
23	867.93	907.86	39.93	Class	1	-	-	-	-
24	907.86	947.76	39.90	Class	1	-	-	-	-
25	947.76	987.55	39.79	Class	1	-	-	-	-
26	987.55	1027.01	39.46	Class	1	-	-	-	-
27	1027.01	1066.97	39.96	Class	1	-	-	-	-
28	1066.97	1106.83	39.86	Class	1	-	-	-	-
29	1106.83	1146.78	39.95	Class	1	-	-	-	-
30	1146.78	1186.63	39.85	Class	1	-	-	-	-
31	1186.63	1224.58	37.95	Class	1	-	-	-	-
32	1224.58	1264.36	39.78	Class	1	-	-	-	-
33	1264.36	1304.15	39.79	Class	1	-	-	-	-
34	1304.15	1344.03	39.88	Class	1	-	-	-	-
35	1344.03	1382.86	38.83	Class	1	-	-	-	-
36	1382.86	1421.00	38.14	Class	1	-	-	-	-
37	1421.00	1460.89	39.89	Class	1	-	-	-	-
38	1460.89	1500.79	39.90	Class	1	-	-	-	-
39	1500.79	1537.06	36.27	Class	1	-	-	-	-
40	1537.06	1576.84	39.78	Class	1	-	-	-	-
41	1576.84	1616.72	39.88	Class	1	-	-	-	-
42	1616.72	1656.62	39.90	Class	1	-	-	-	-
43	1656.62	1696.49	39.87	Class	1	-	-	-	-
44	1696.49	1736.37	39.88	Class	1	-	-	-	-
45	1736.37	1776.18	39.81	Class	1	-	-	-	-
46	1776.18	1816.06	39.88	Class	1	-	-	-	-
47	1816.06	1855.95	39.89	Class	1	-	-	-	-
48	1855.95	1895.83	39.88	Class	1	-	-	-	-
49	1895.83	1940.28	44.45	Class	1	-	-	-	-
50	1940.28	1985.79	45.51	Class	1	-	-	-	-
51	1985.79	2031.21	45.42	Class	1	-	-	-	-
52	2031.21	2076.98	45.77	Class	1	-	-	-	-
53	2076.98	2121.34	44.36	Class	1	-	-	-	-
54	2121.34	2165.03	43.69	Class	1	-	-	-	-
55	2165.03	2211.48	46.45	Class	1	-	-	-	-
56	2211.48	2257.24	45.76	Class	1	-	-	-	-
57	2257.24	2301.80	44.56	Class	1	-	-	-	-
58	2301.80	2345.45	43.65	Class	1	-	-	-	-
59	2345.45	2388.47	43.02	Class	1	-	-	-	-
60	2388.47	2428.03	39.56	Class	1	-	-	-	-
61	2428.03	2465.08	37.05	Class	1	-	-	-	-
62	2465.08	2504.94	39.86	Class	1	-	-	-	-
63	2504.94	2549.10	44.16	Class	1	-	-	-	-
64	2549.10	2589.42	40.32	Class	1	-	-	-	-
65	2589.42	2633.17	43.75	Class	1	-	-	-	-
66	2633.17	2673.16	39.99	Class	1	-	-	-	-
67	2673.16	2713.03	39.87	Class	1	-	-	-	-
68	2713.03	2752.85	39.82	Class	1	-	-	-	-
69	2752.85	2791.98	39.13	Class	1	-	-	-	-
70	2791.98	2831.82	39.84	Class	1				

70	2791.98	2831.82	39.84	Class 1	-	-	-	-
71	2831.82	2874.80	42.98	Class 1	-	-	-	-
72	2874.80	2914.90	40.10	Class 1	-	-	-	-
73	2914.90	2954.84	39.94	Class 1	-	-	-	-
74	2954.84	2994.62	39.78	Class 1	-	-	-	-
75	2994.62	3009.20	14.58	Class 1	-	-	-	-
76	3009.20	3053.78	44.58	Class 1	-	-	-	-
77	3053.78	3098.99	45.21	Class 1	-	-	-	-
78	3098.99	3143.36	44.37	Class 1	-	-	-	-
79	3143.36	3187.65	44.29	Class 1	-	-	-	-
80	3187.65	3227.65	40.00	Class 1	-	-	-	-
81	3227.65	3267.35	39.70	Class 1	-	-	-	-
82	3267.35	3307.37	40.02	Class 1	-	-	-	-
83	3307.37	3347.07	39.70	Class 1	-	-	-	-
84	3347.07	3387.17	40.10	Class 1	-	-	-	-
85	3387.17	3427.01	39.84	Class 1	-	-	-	-
86	3427.01	3466.80	39.79	Class 1	-	-	-	-
87	3466.80	3506.85	40.05	Class 1	-	-	-	-
88	3506.85	3546.93	40.08	Class 1	-	-	-	-
89	3546.93	3586.68	39.75	Class 1	-	-	-	-
90	3586.68	3626.47	39.79	Class 1	-	-	-	-
91	3626.47	3666.37	39.90	Class 1	-	-	-	-
92	3666.37	3706.28	39.91	Class 1	-	-	-	-
93	3706.28	3746.19	39.91	Class 1	-	-	-	-
94	3746.19	3786.30	40.11	Class 1	-	-	-	-
95	3786.30	3825.89	39.59	Class 1	-	-	-	-
96	3825.89	3865.91	40.02	Class 1	-	-	-	-
97	3865.91	3905.66	39.75	Class 1	-	-	-	-
98	3905.66	3944.32	38.66	Class 1	-	-	-	-
99	3944.32	3987.78	43.46	Class 1	-	-	-	-
100	3987.78	4031.30	43.52	Class 1	-	-	-	-
101	4031.30	4071.28	39.98	Class 1	-	-	-	-
102	4071.28	4111.22	39.94	Class 1	-	-	-	-
103	4111.22	4151.19	39.97	Class 1	-	-	-	-
104	4151.19	4190.65	39.46	Class 1	-	-	-	-
105	4190.65	4230.62	39.97	Class 1	-	-	-	-
106	4230.62	4270.38	39.76	Class 1	-	-	-	-
107	4270.38	4310.01	39.63	Class 1	-	-	-	-
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109	4350.01	4389.45	39.44	Class 1	-	-	-	-
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111	4428.54	4468.39	39.85	Class 1	-	-	-	-
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114	4548.06	4587.88	39.82	Class 1	-	-	-	-
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120	4784.73	4824.15	39.42	Class 1	-	-	-	-
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126	5020.87	5060.62	39.75	Class 1	-	-	-	-
127	5060.62	5100.63	40.01	Class 1	-	-	-	-
128	5100.63	5140.16	39.53	Class 1	-	-	-	-
129	5140.16	5179.98	39.82	Class 1	18.0%	5169.77	ISO	OD
130	5179.98	5219.12	39.14	Class 1	16.0%	5218.08	ISO	OD
131	5219.12	5259.18	40.06	Class 1	-	-	-	-
132	5259.18	5298.48	39.30	Class 1	-	-	-	-
133	5298.48	5338.06	39.58	Class 1	-	-	-	-

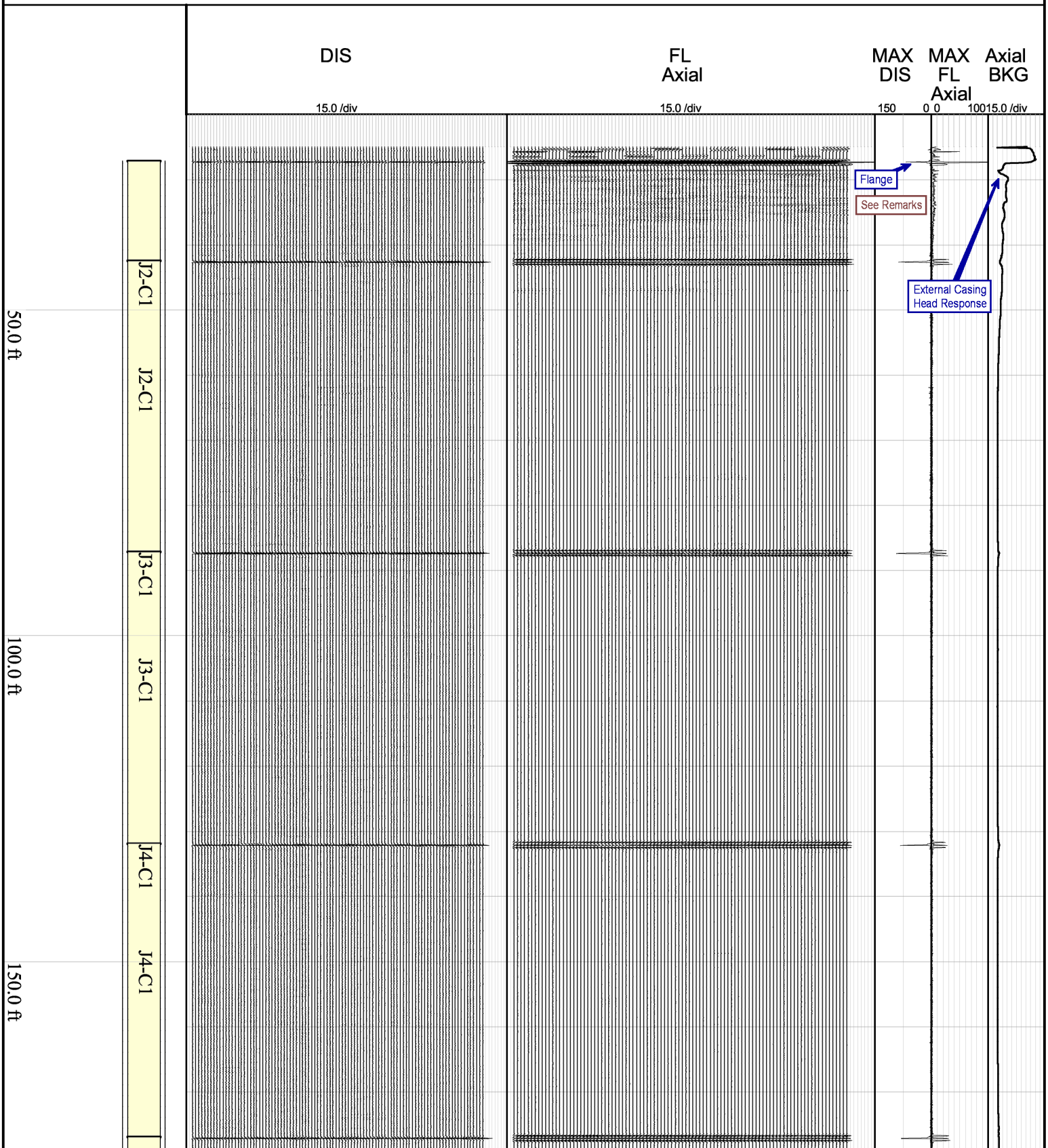
134	5338.06	5378.22	40.16	Class	1	-	-	-	-
135	5378.22	5417.61	39.39	Class	1	-	-	-	-
136	5417.61	5457.88	40.27	Class	1	-	-	-	-
137	5457.88	5497.38	39.50	Class	1	-	-	-	-
138	5497.38	5537.22	39.84	Class	1	-	-	-	-
139	5537.22	5577.84	40.62	Class	1	-	-	-	-
140	5577.84	5621.00	43.16	Class	1	-	-	-	-
141	5621.00	5660.54	39.54	Class	1	-	-	-	-
142	5660.54	5700.46	39.92	Class	1	-	-	-	-
143	5700.46	5739.93	39.47	Class	1	-	-	-	-
144	5739.93	5779.78	39.85	Class	1	-	-	-	-
145	5779.78	5819.41	39.63	Class	1	-	-	-	-
146	5819.41	5858.78	39.37	Class	1	-	-	-	-
147	5858.78	5898.36	39.58	Class	1	-	-	-	-
148	5898.36	5941.44	43.08	Class	1	-	-	-	-
149	5941.44	5984.16	42.72	Class	1	-	-	-	-
150	5984.16	6027.46	43.30	Class	1	-	-	-	-
151	6027.46	6071.15	43.69	Class	1	-	-	-	-
152	6071.15	6114.89	43.74	Class	1	-	-	-	-
153	6114.89	6159.05	44.16	Class	1	-	-	-	-
154	6159.05	6199.96	40.91	Class	1	-	-	-	-
155	6199.96	6243.34	43.38	Class	1	-	-	-	-
156	6243.34	6287.41	44.07	Class	1	-	-	-	-
157	6287.41	6327.61	40.20	Class	1	-	-	-	-
158	6327.61	6367.44	39.83	Class	1	-	-	-	-
159	6367.44	6405.78	38.34	Class	1	-	-	-	-
160	6405.78	6443.67	37.89	Class	1	-	-	-	-
161	6443.67	6481.72	38.05	Class	1	-	-	-	-
162	6481.72	6521.11	39.39	Class	1	-	-	-	-
163	6521.11	6560.53	39.42	Class	1	-	-	-	-
164	6560.53	6599.89	39.36	Class	1	-	-	-	-
165	6599.89	6639.87	39.98	Class	1	-	-	-	-
166	6639.87	6679.39	39.52	Class	1	-	-	-	-
167	6679.39	6719.74	40.35	Class	1	-	-	-	-
168	6719.74	6759.14	39.40	Class	1	-	-	-	-
169	6759.14	6799.08	39.94	Class	1	-	-	-	-
170	6799.08	6838.96	39.88	Class	1	-	-	-	-
171	6838.96	6878.65	39.69	Class	1	-	-	-	-
172	6878.65	6918.79	40.14	Class	1	-	-	-	-
173	6918.79	6957.24	38.45	Class	1	-	-	-	-
174	6957.24	6997.18	39.94	Class	1	-	-	-	-
175	6997.18	7036.86	39.68	Class	1	-	-	-	-
176	7036.86	7076.80	39.94	Class	1	-	-	-	-
177	7076.80	7114.67	37.87	Class	1	-	-	-	-
178	7114.67	7154.61	39.94	Class	1	-	-	-	-
179	7154.61	7194.66	40.05	Class	1	-	-	-	-
180	7194.66	7234.00	39.34	Class	1	-	-	-	-
181	7234.00	7274.05	40.05	Class	1	-	-	-	-
182	7274.05	7312.85	38.80	Class	1	-	-	-	-
183	7312.85	7352.78	39.93	Class	1	-	-	-	-
184	7352.78	7393.09	40.31	Class	1	-	-	-	-
185	7393.09	7431.63	38.54	Class	1	-	-	-	-
186	7431.63	7470.56	38.93	Class	1	-	-	-	-
187	7470.56	7485.31	14.75	Class	1	-	-	-	-
188	7485.31	7525.24	39.93	Class	1	-	-	-	-
189	7525.24	7564.16	38.92	Class	2	27.0%	7550.18	ISO	ID
190	7564.16	7604.40	40.24	Class	1	-	-	-	-
191	7604.40	7642.81	38.41	Class	1	-	-	-	-

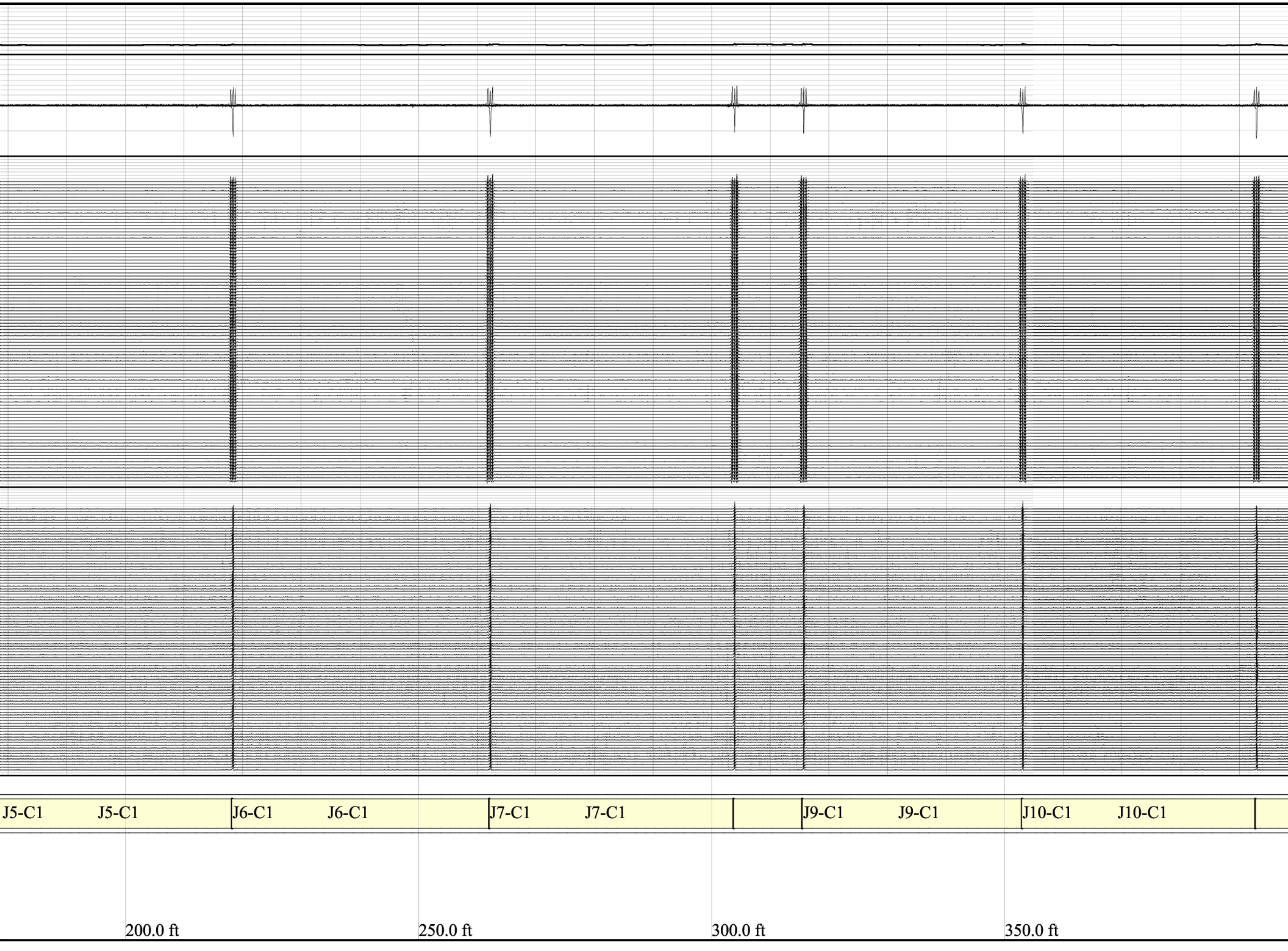
Southern California Gas Company Portel 25R

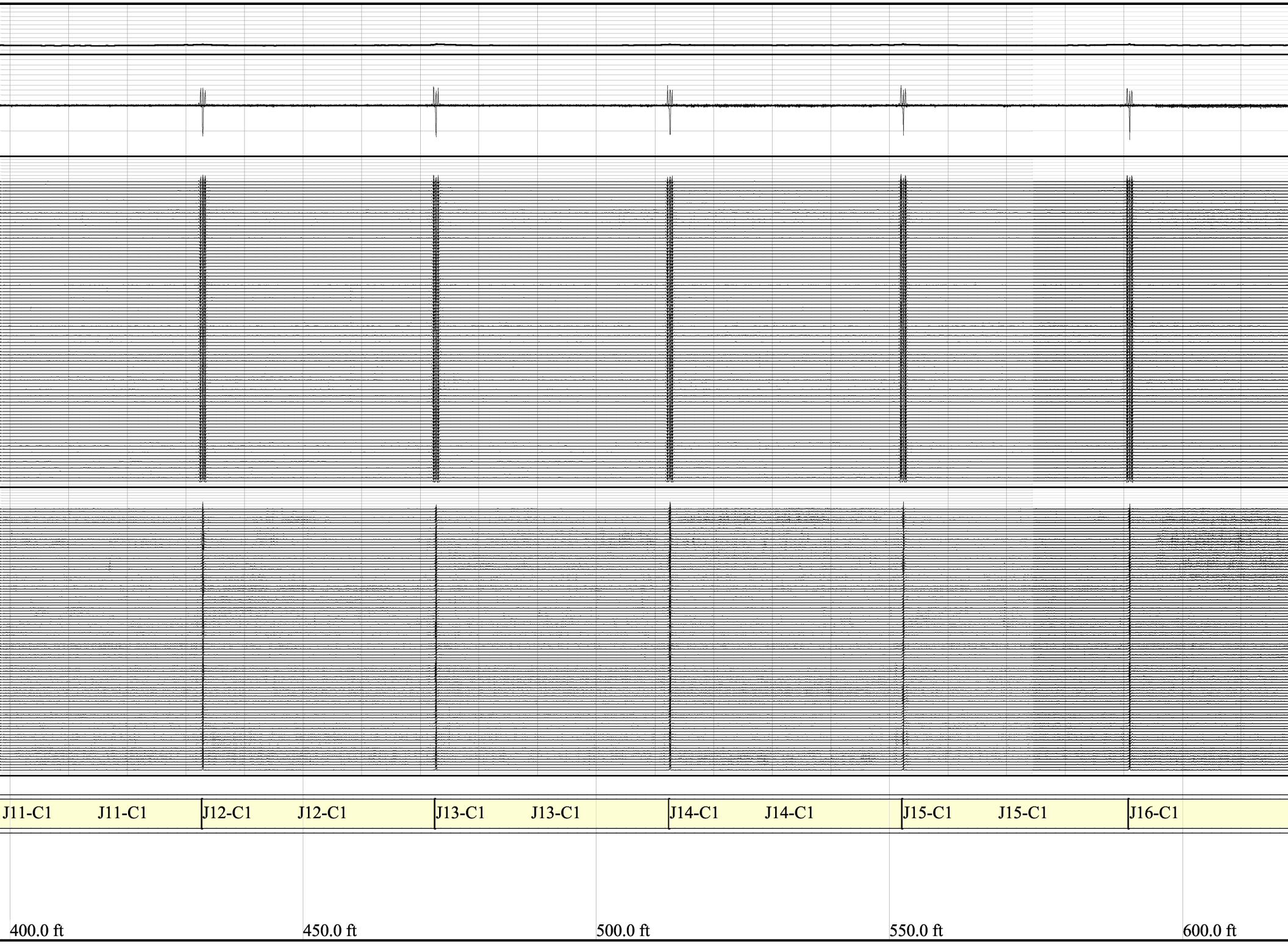
File 20160428_161823_RSP_0_0_0_0_0.mvl

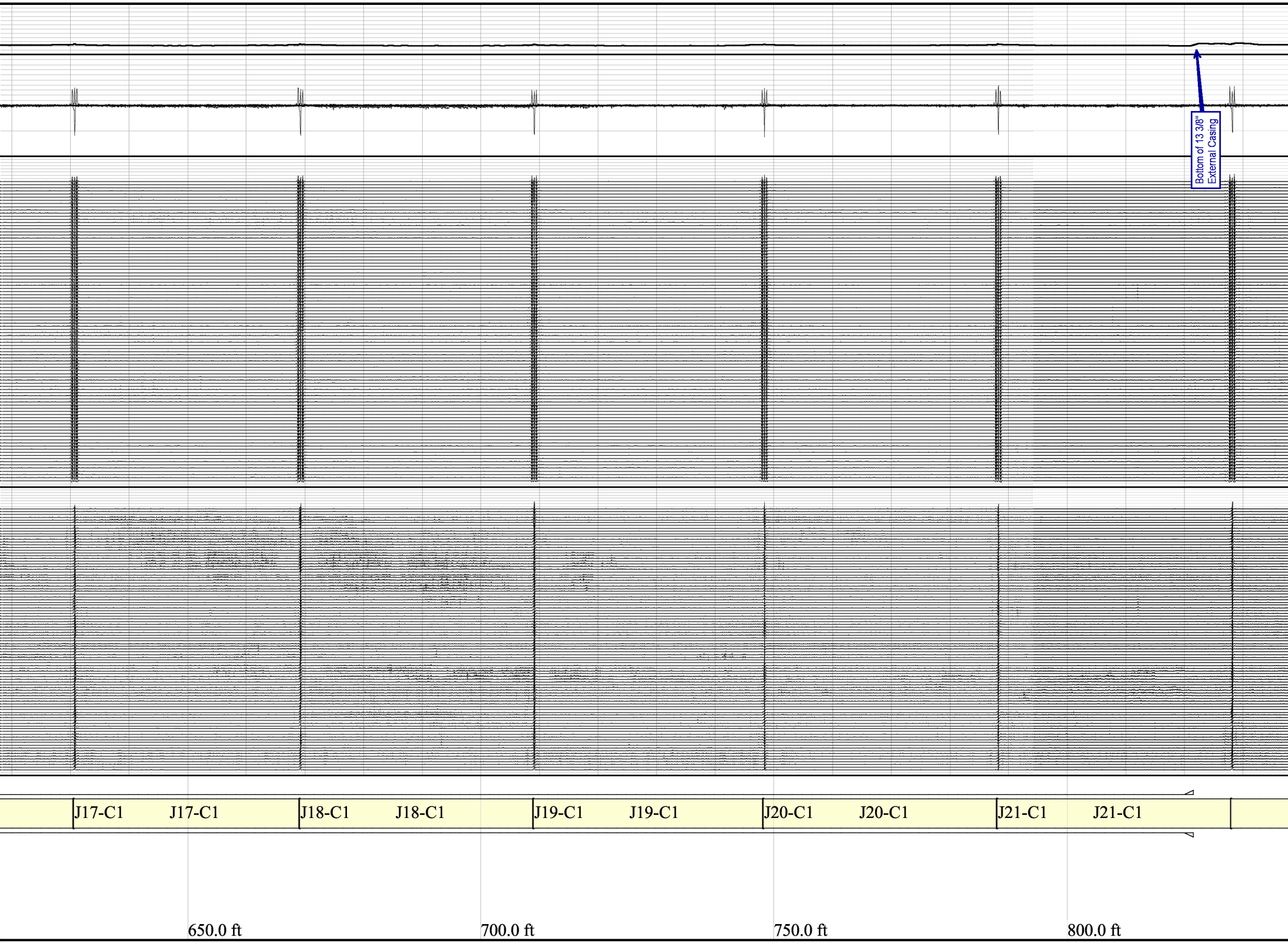
Main Log
5" / 100'

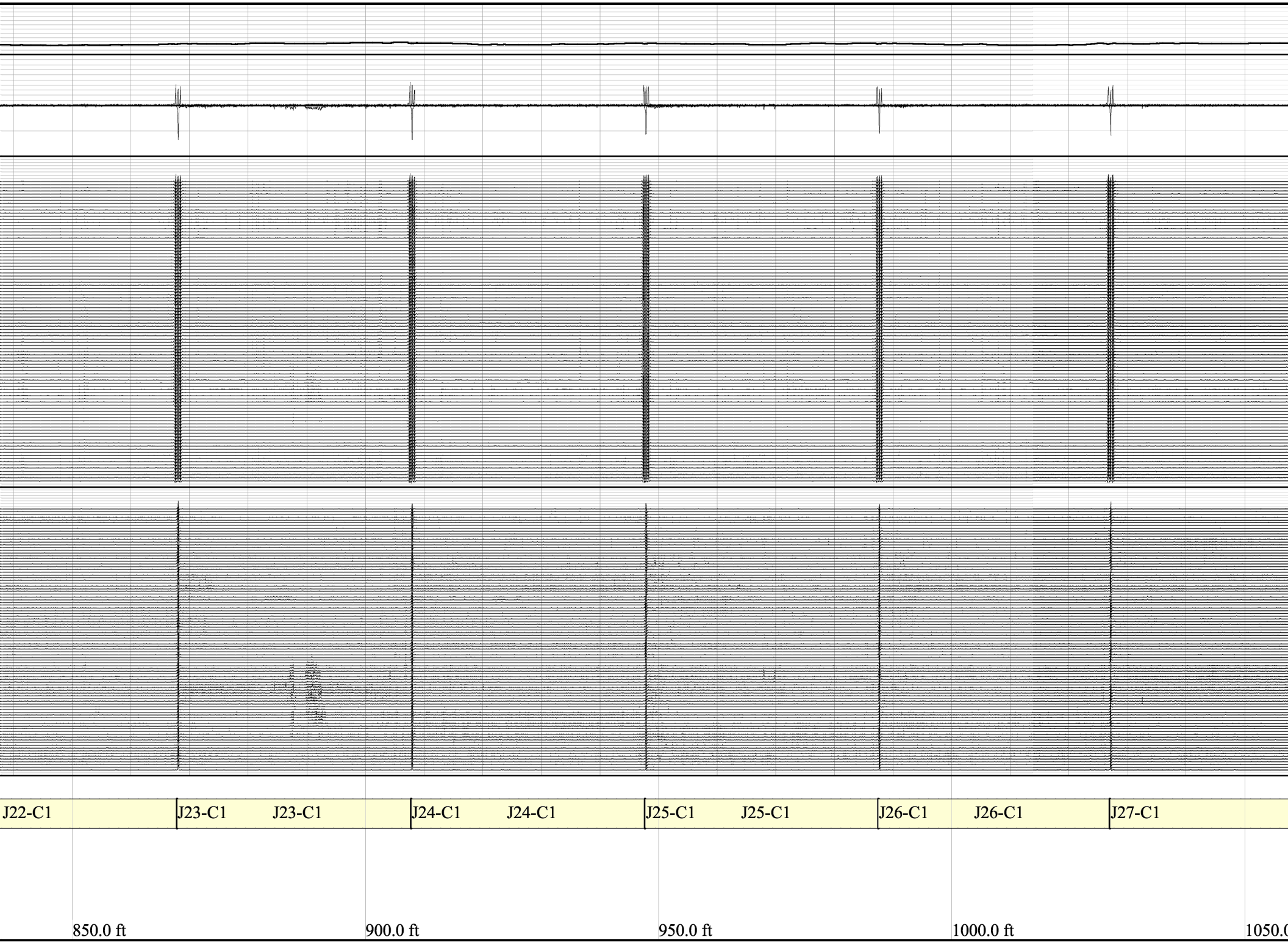
Class 1	Class 2	Class 3	Class 4
0 - 20%	20 - 40%	40 - 60%	60 - 100%

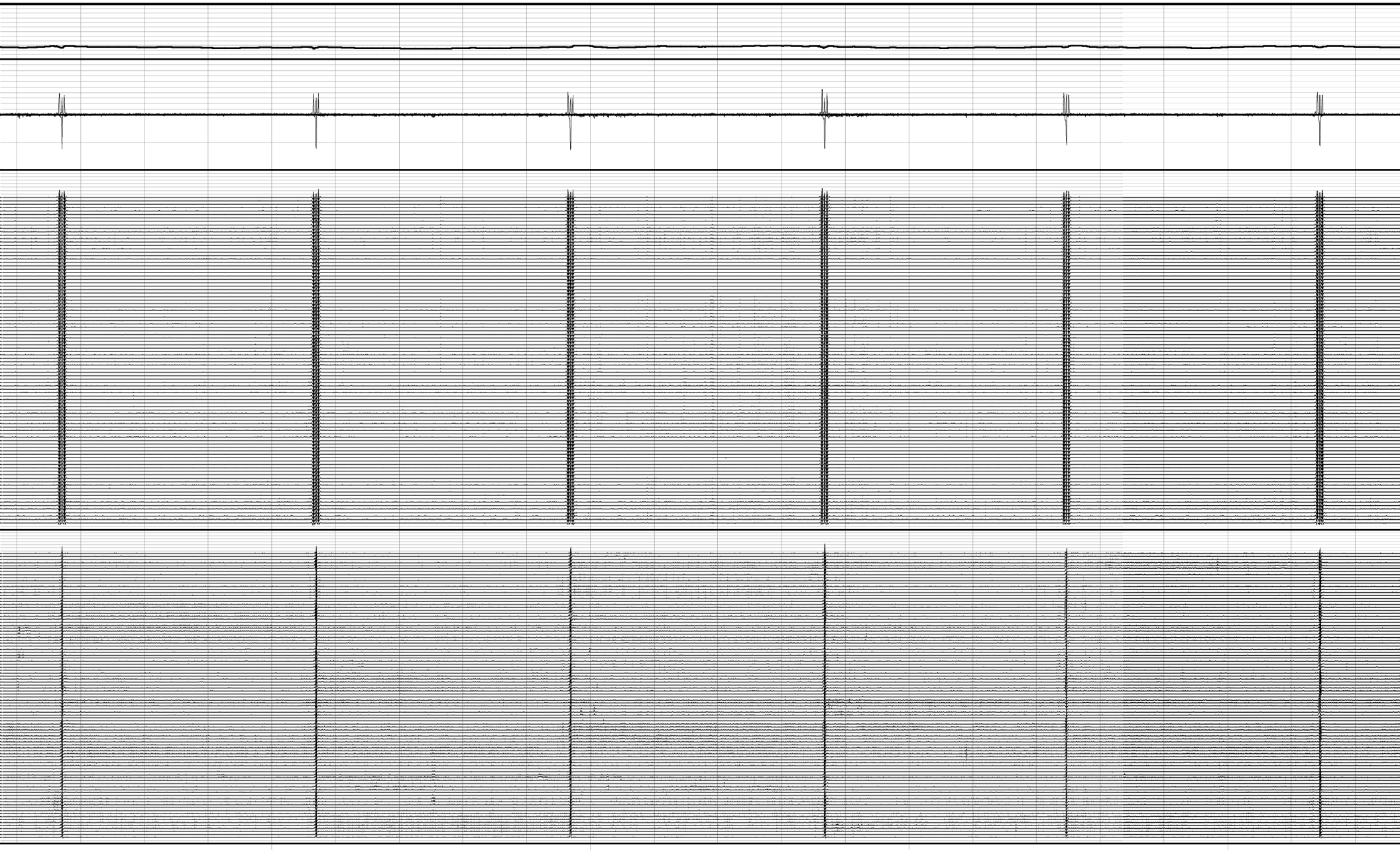


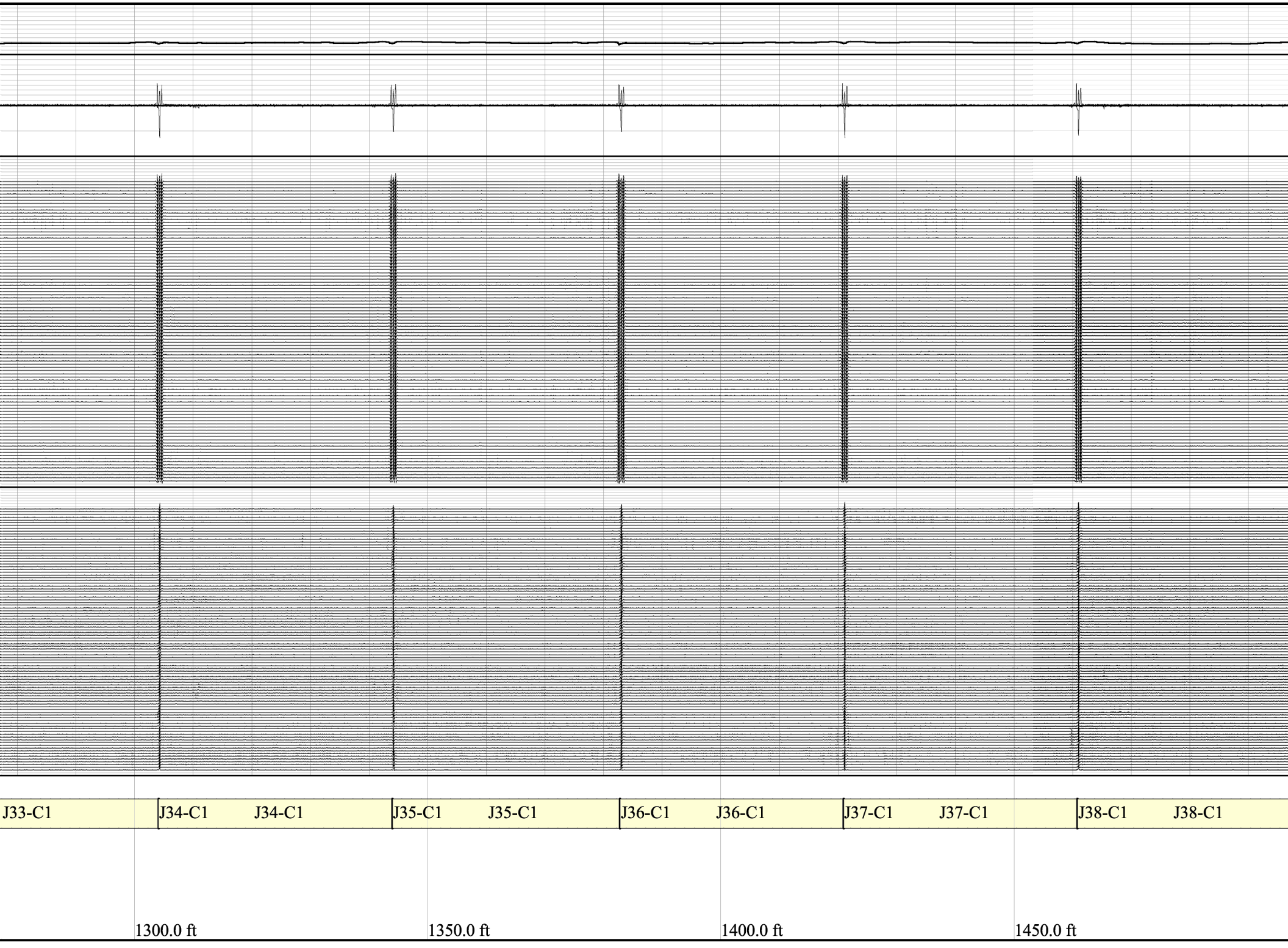

J5-C1
J5-C1
J6-C1
J6-C1
J7-C1
J7-C1
J9-C1
J9-C1
J10-C1
J10-C1
200.0 ft
250.0 ft
300.0 ft
350.0 ft


J11-C1
J11-C1
J12-C1
J12-C1
J13-C1
J13-C1
J14-C1
J14-C1
J15-C1
J15-C1
J16-C1
400.0 ft
450.0 ft
500.0 ft
550.0 ft
600.0 ft


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
650.0 ft
700.0 ft
750.0 ft
800.0 ft


J22-C1
J23-C1
J23-C1
J24-C1
J24-C1
J25-C1
J25-C1
J26-C1
J26-C1
J27-C1
850.0 ft
900.0 ft
950.0 ft
1000.0 ft
1050.0


J28-C1
J28-C1
J29-C1
J29-C1
J30-C1
J30-C1
J31-C1
J31-C1
J32-C1
J32-C1
0 ft
1100.0 ft
1150.0 ft
1200.0 ft
1250.0 ft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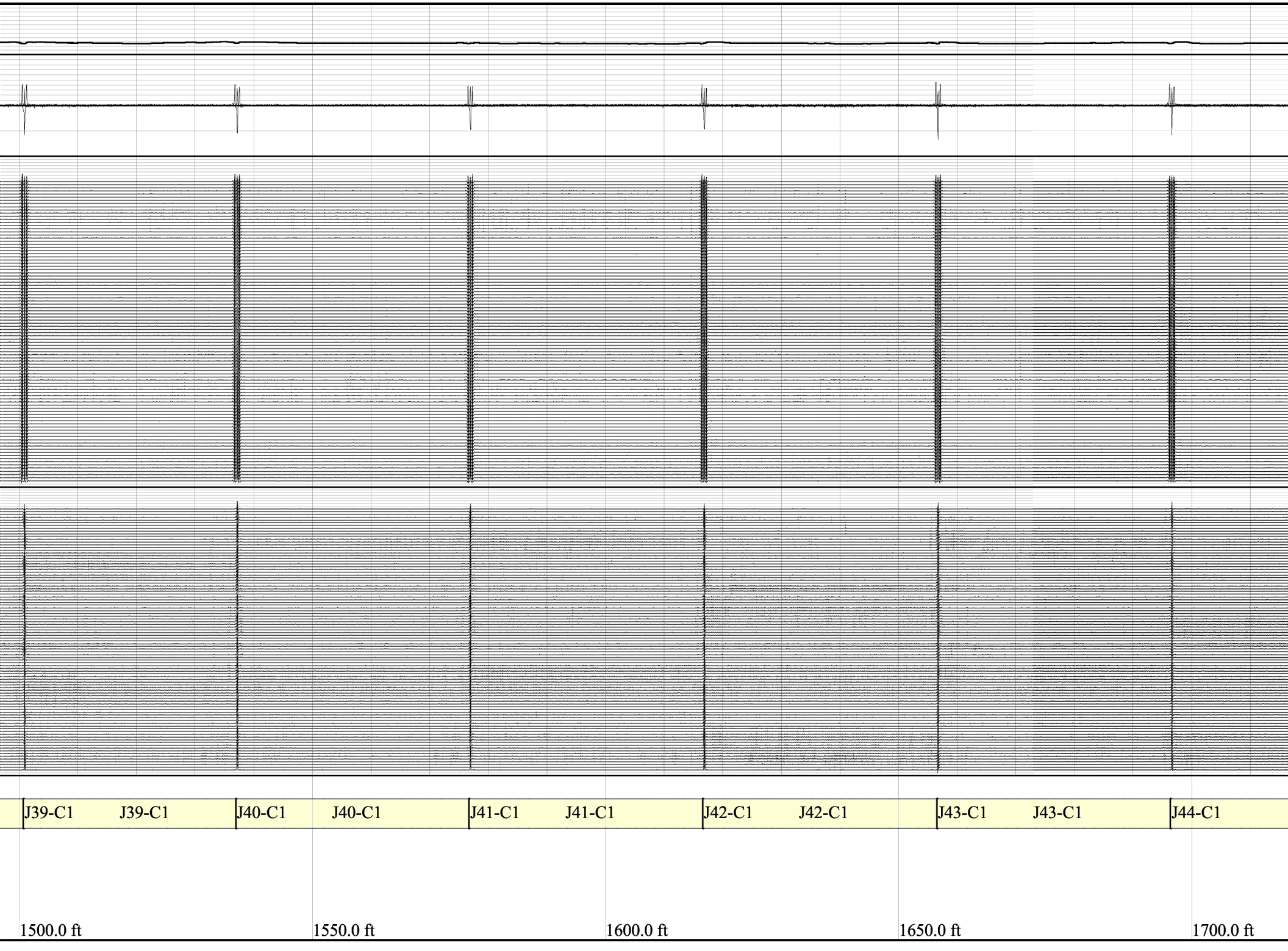
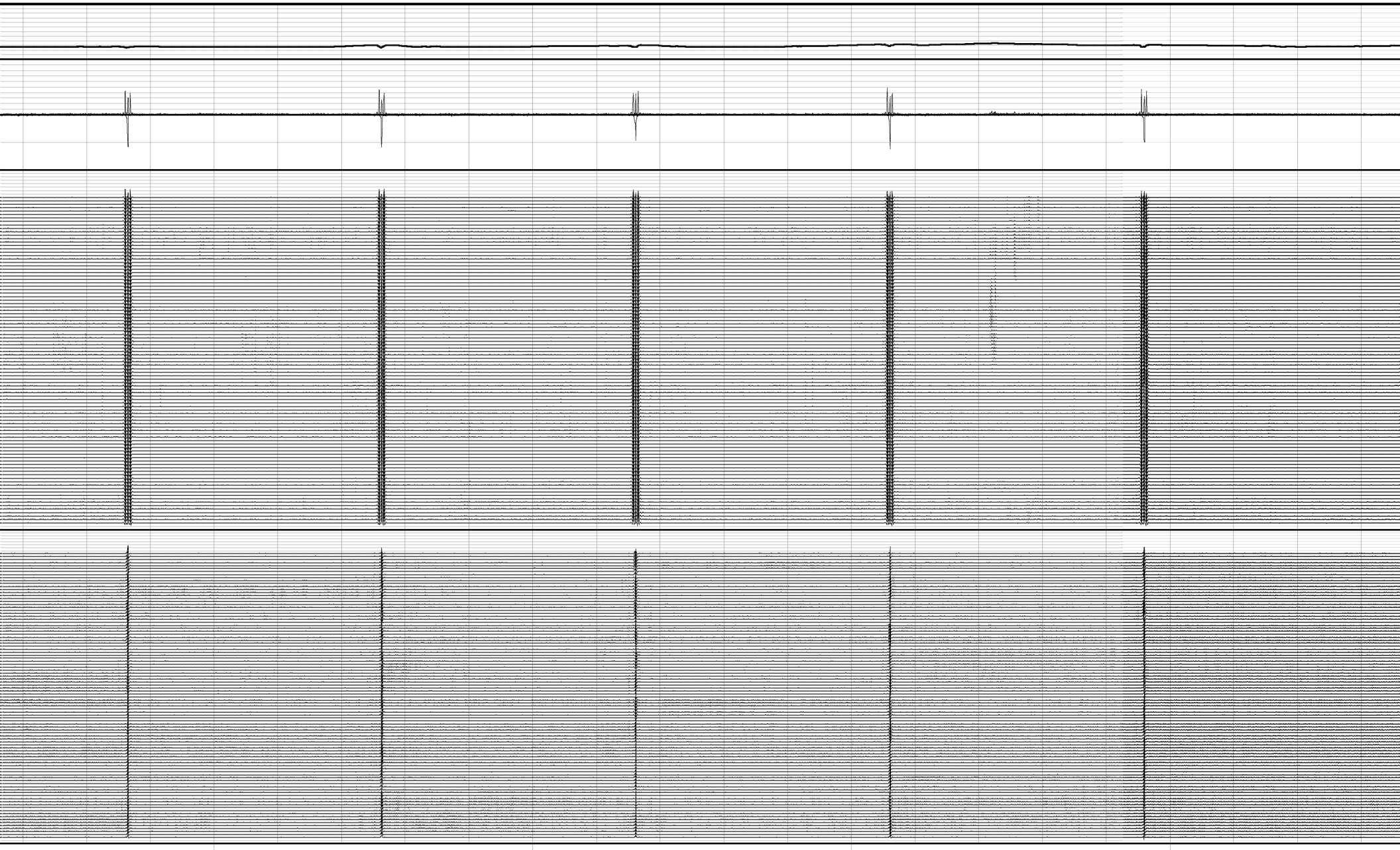
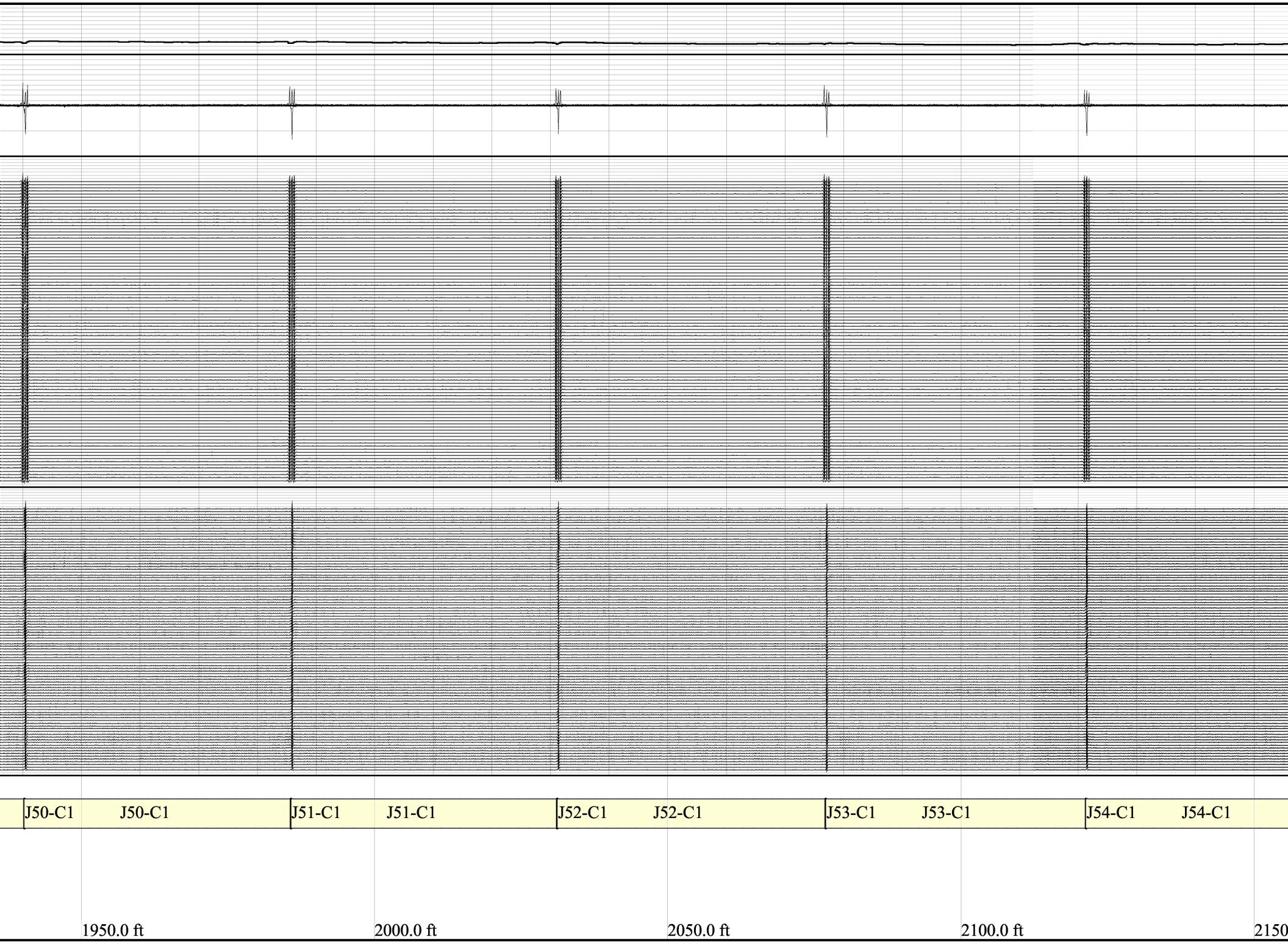
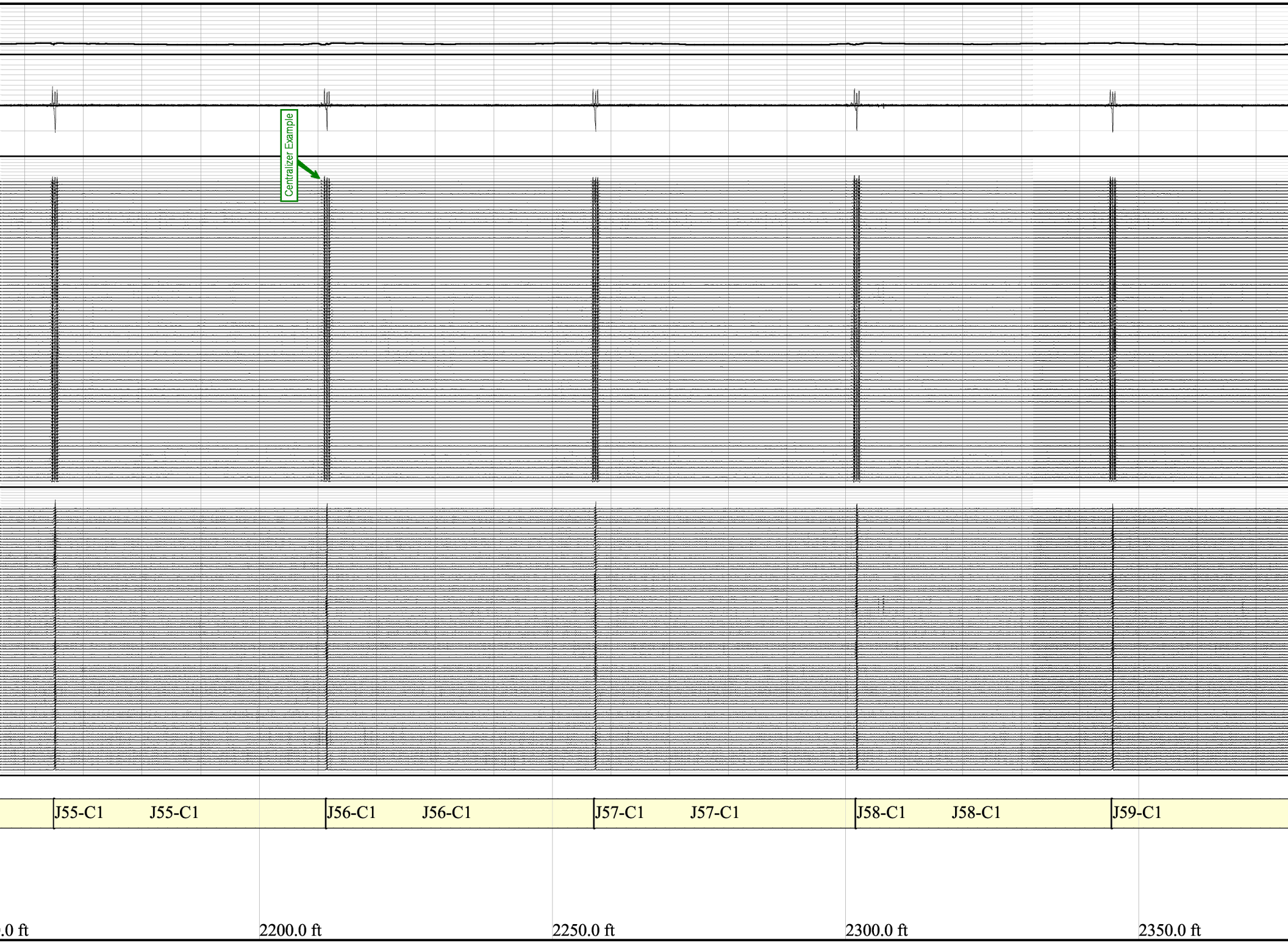
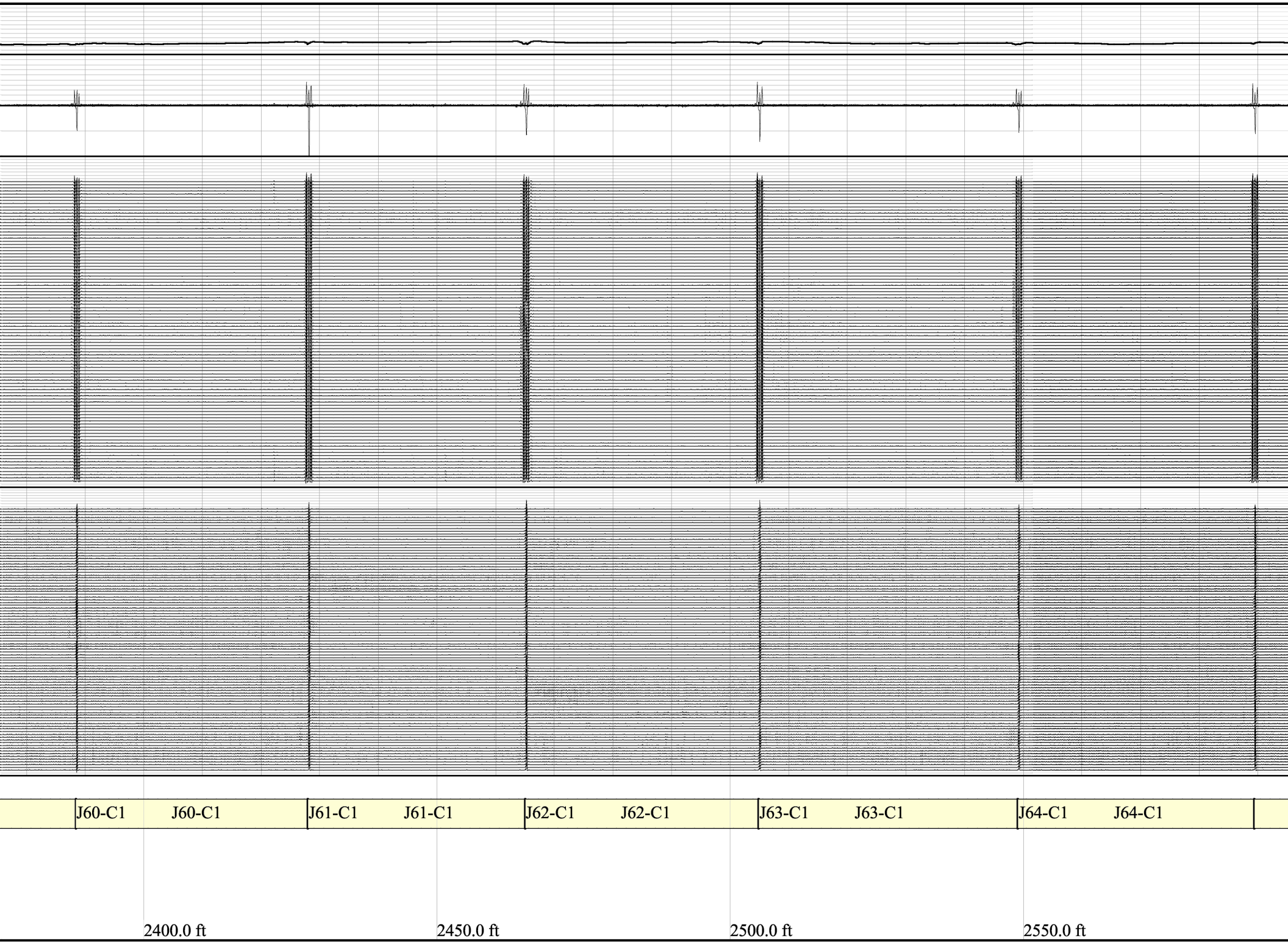
J34-C1
J34-C1
J35-C1
J35-C1
J36-C1
J36-C1
J37-C1
J37-C1
J38-C1
J38-C1
1300.0 ft
1350.0 ft
1400.0 ft
1450.0 ft

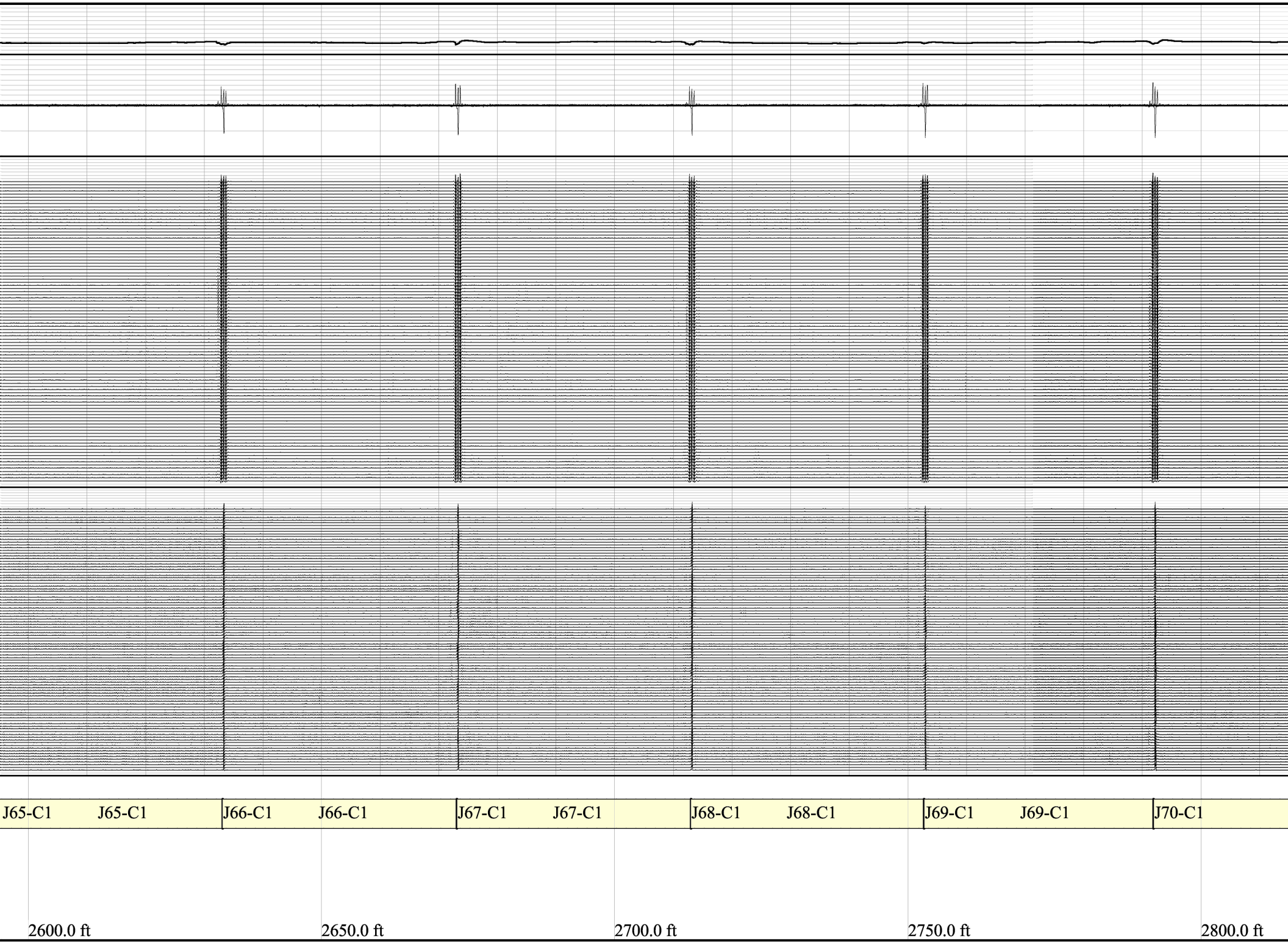

J39-C1
J39-C1
J40-C1
J40-C1
J41-C1
J41-C1
J42-C1
J42-C1
J43-C1
J43-C1
J44-C1
1500.0 ft
1550.0 ft
1600.0 ft
1650.0 ft
1700.0 ft

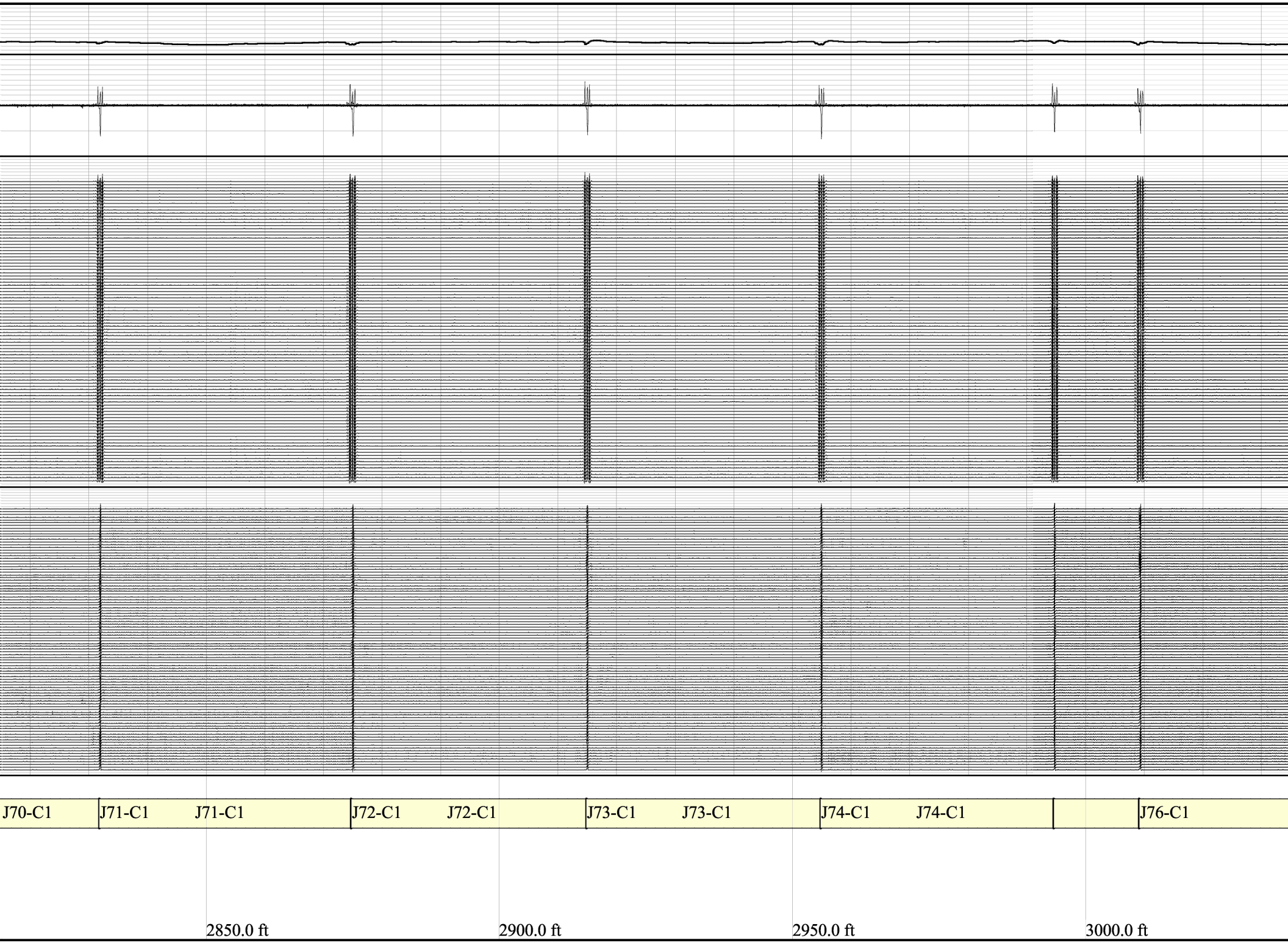

J44-C1
J45-C1
J45-C1
J46-C1
J46-C1
J47-C1
J47-C1
J48-C1
J48-C1
J49-C1
J49-C1
1750.0 ft
1800.0 ft
1850.0 ft
1900.0 ft

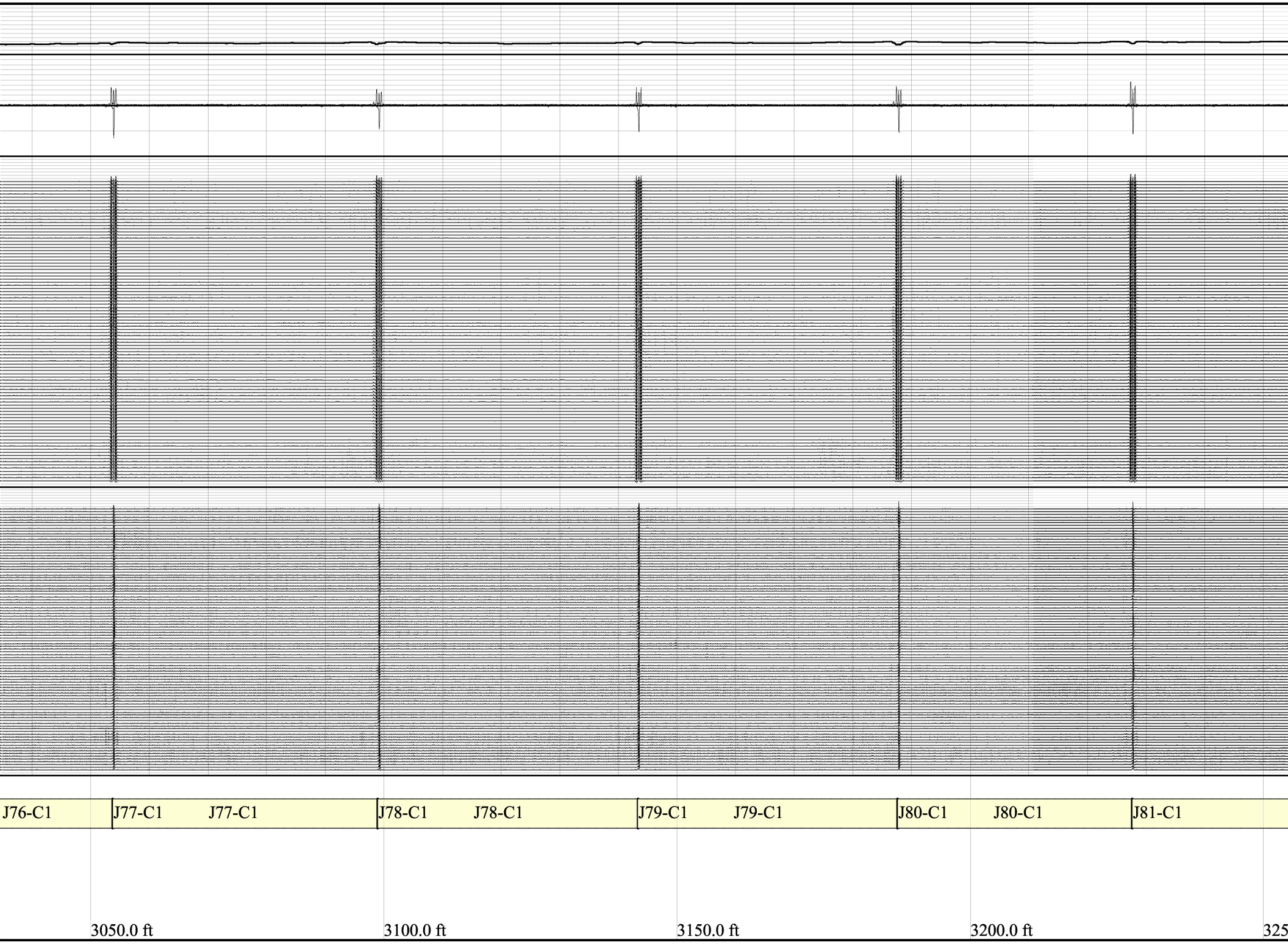

J50-C1
J50-C1
J51-C1
J51-C1
J52-C1
J52-C1
J53-C1
J53-C1
J54-C1
J54-C1
1950.0 ft
2000.0 ft
2050.0 ft
2100.0 ft
2150

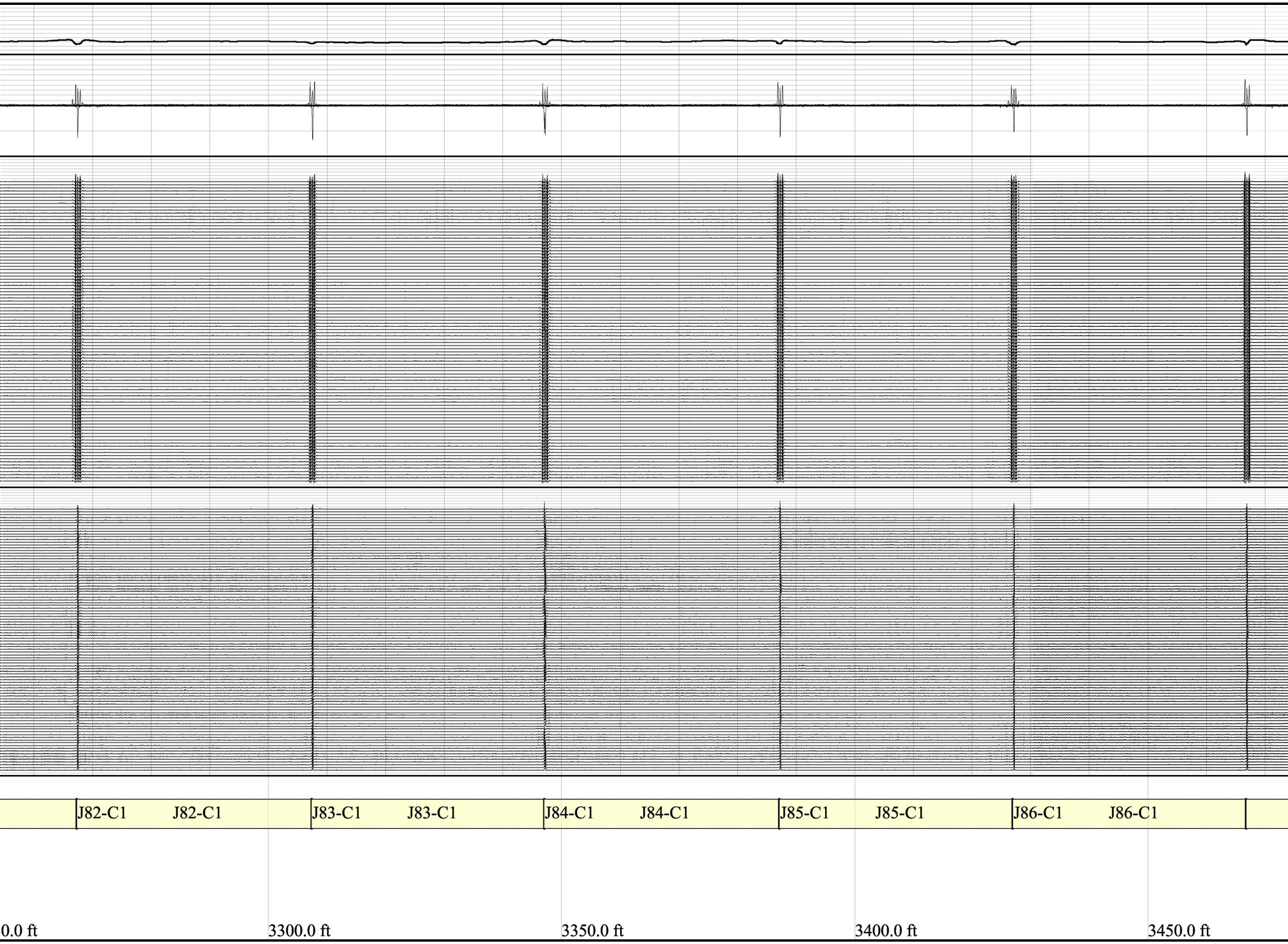

Centralizer Example
J55-C1
J55-C1
J56-C1
J56-C1
J57-C1
J57-C1
J58-C1
J58-C1
J59-C1
.0 ft
2200.0 ft
2250.0 ft
2300.0 ft
2350.0 ft

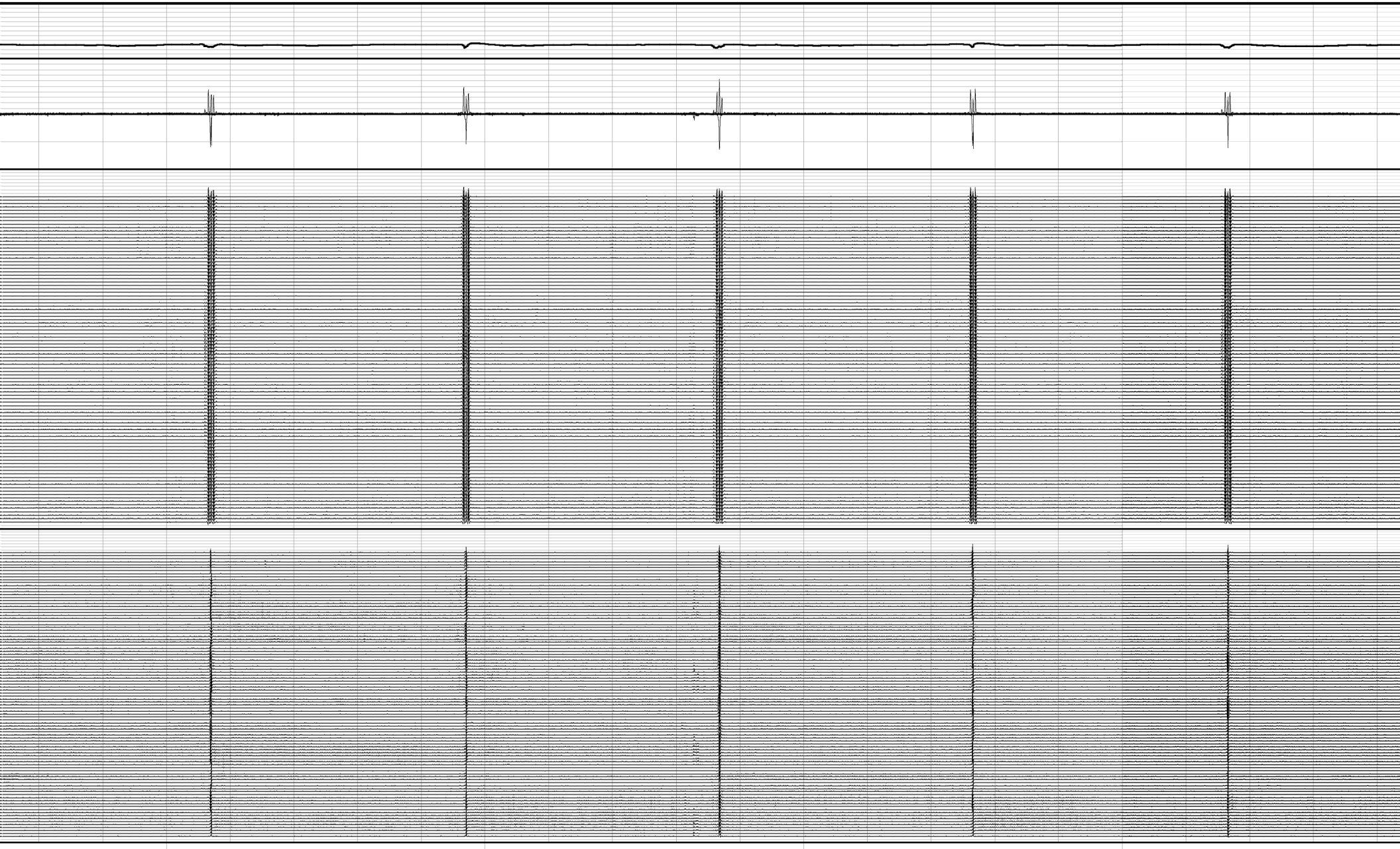

J60-C1
J60-C1
J61-C1
J61-C1
J62-C1
J62-C1
J63-C1
J63-C1
J64-C1
J64-C1
2400.0 ft
2450.0 ft
2500.0 ft
2550.0 ft

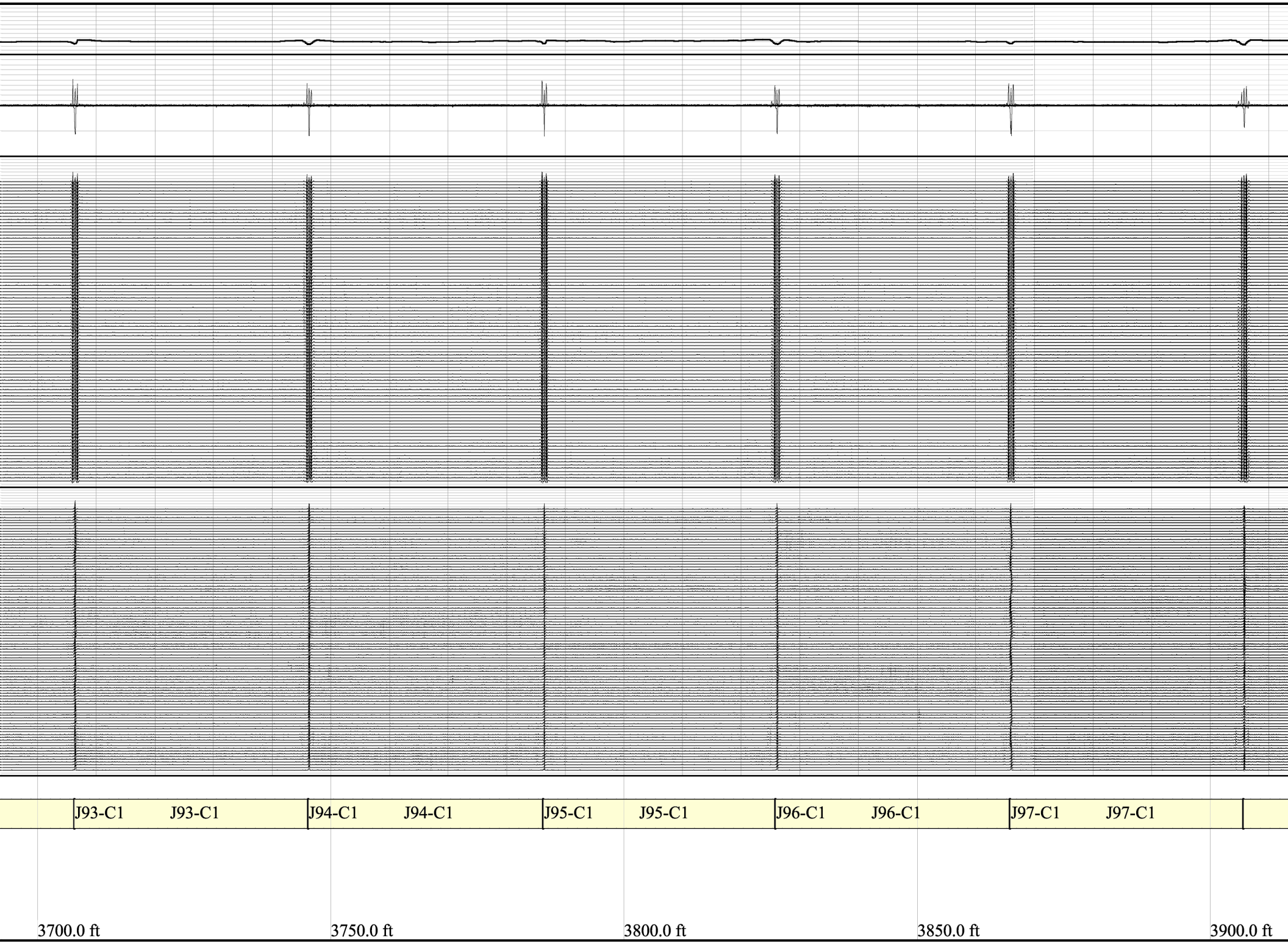

J65-C1
J65-C1
J66-C1
J66-C1
J67-C1
J67-C1
J68-C1
J68-C1
J69-C1
J69-C1
J70-C1
2600.0 ft
2650.0 ft
2700.0 ft
2750.0 ft
2800.0 ft

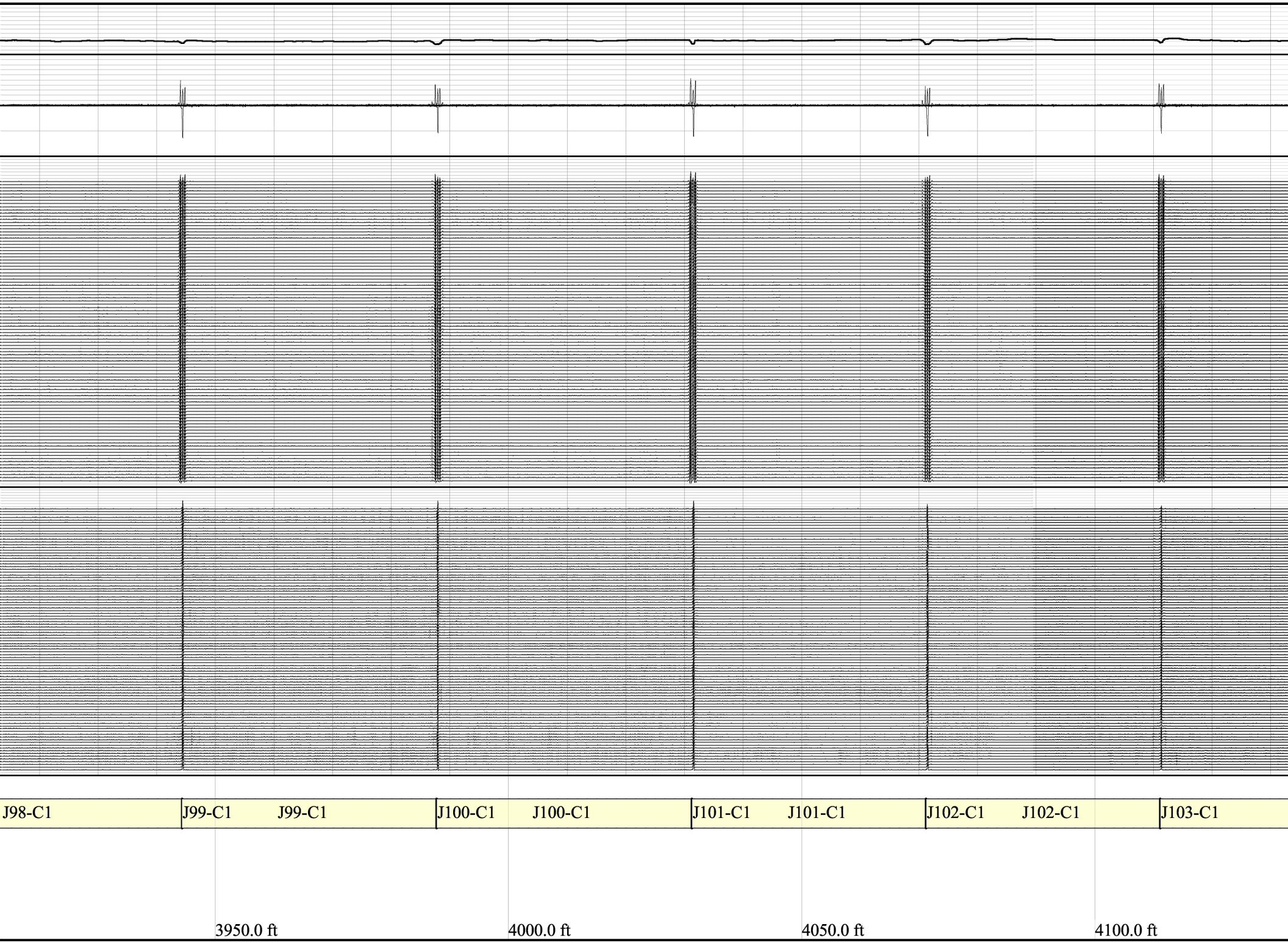

J70-C1
J71-C1
J71-C1
J72-C1
J72-C1
J73-C1
J73-C1
J74-C1
J74-C1
J76-C1
2850.0 ft
2900.0 ft
2950.0 ft
3000.0 ft

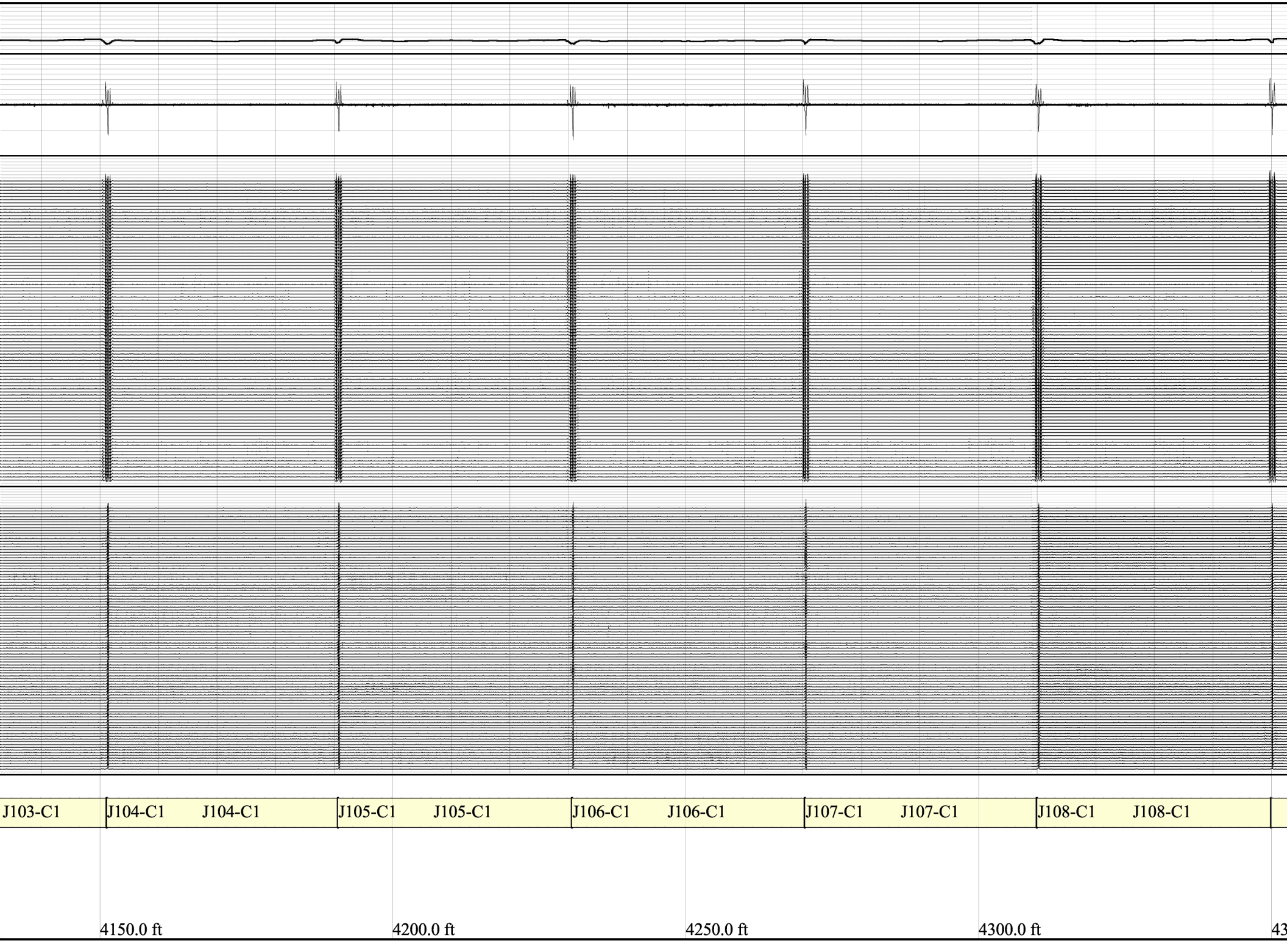

J76-C1
J77-C1
J77-C1
J78-C1
J78-C1
J79-C1
J79-C1
J80-C1
J80-C1
J81-C1
3050.0 ft
3100.0 ft
3150.0 ft
3200.0 ft
325

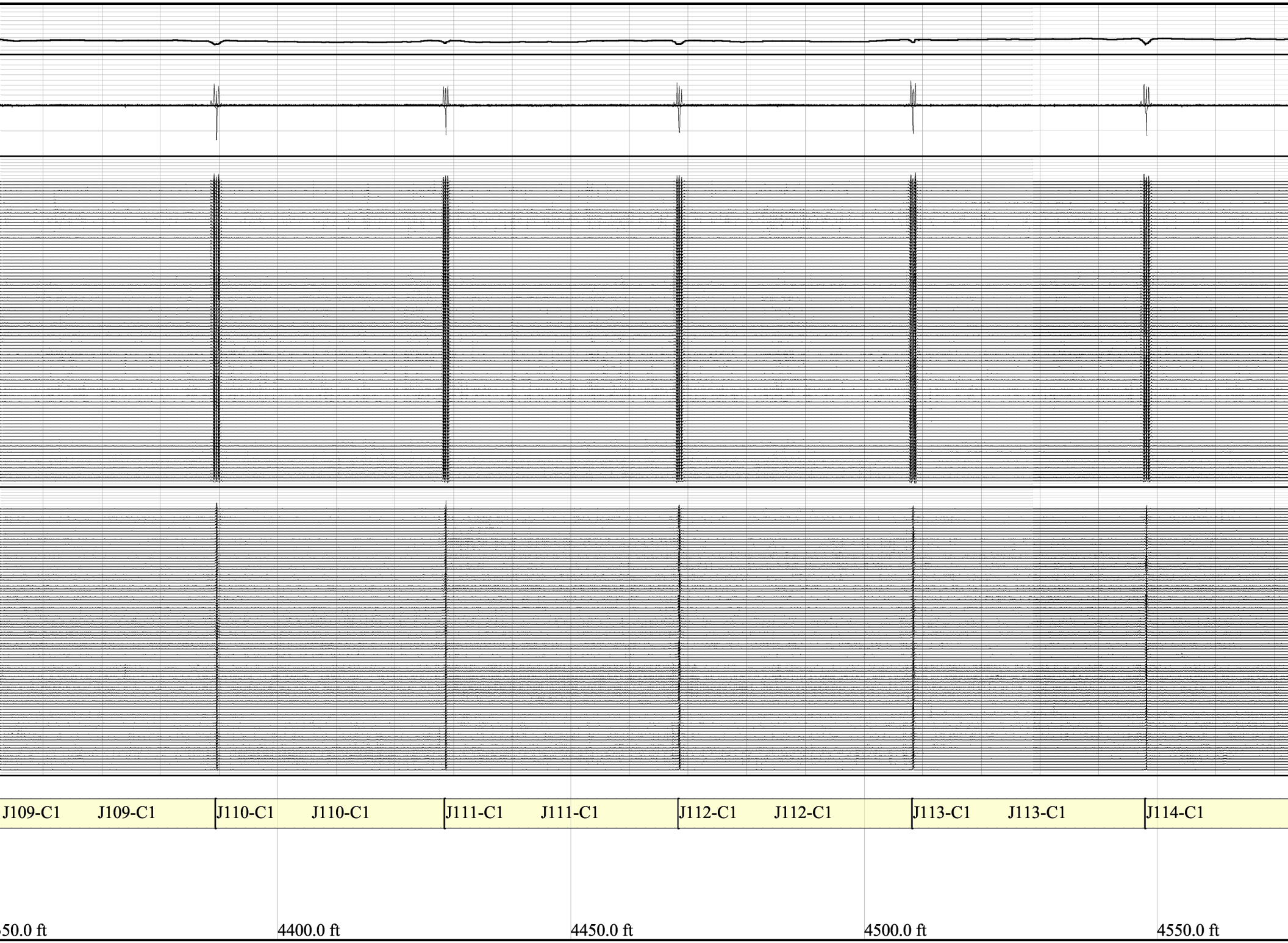

J82-C1
J82-C1
J83-C1
J83-C1
J84-C1
J84-C1
J85-C1
J85-C1
J86-C1
J86-C1
0.0 ft
3300.0 ft
3350.0 ft
3400.0 ft
3450.0 ft

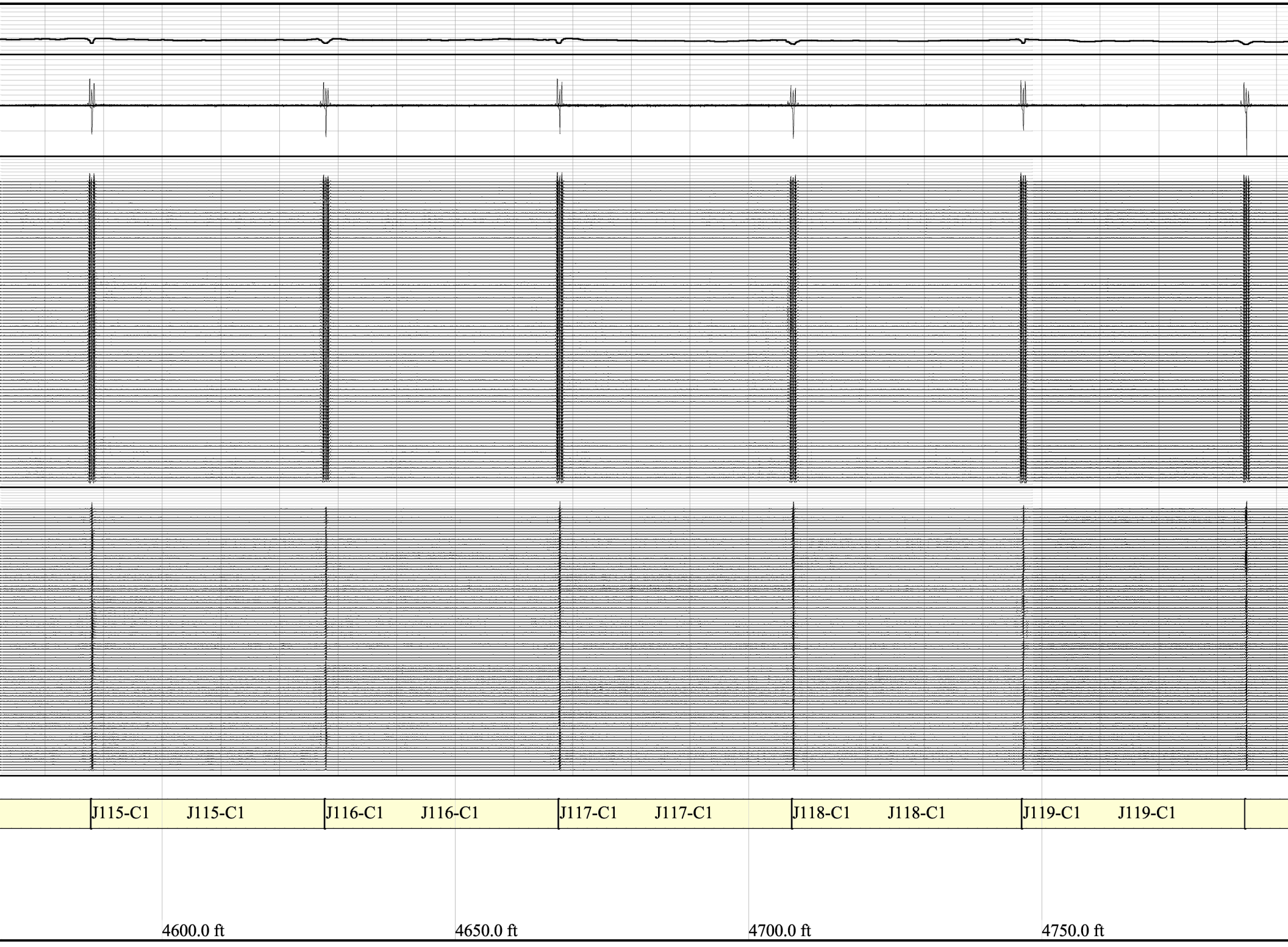

J87-C1
J87-C1
J88-C1
J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
J91-C1
J91-C1
J92-C1
3500.0 ft
3550.0 ft
3600.0 ft
3650.0 ft

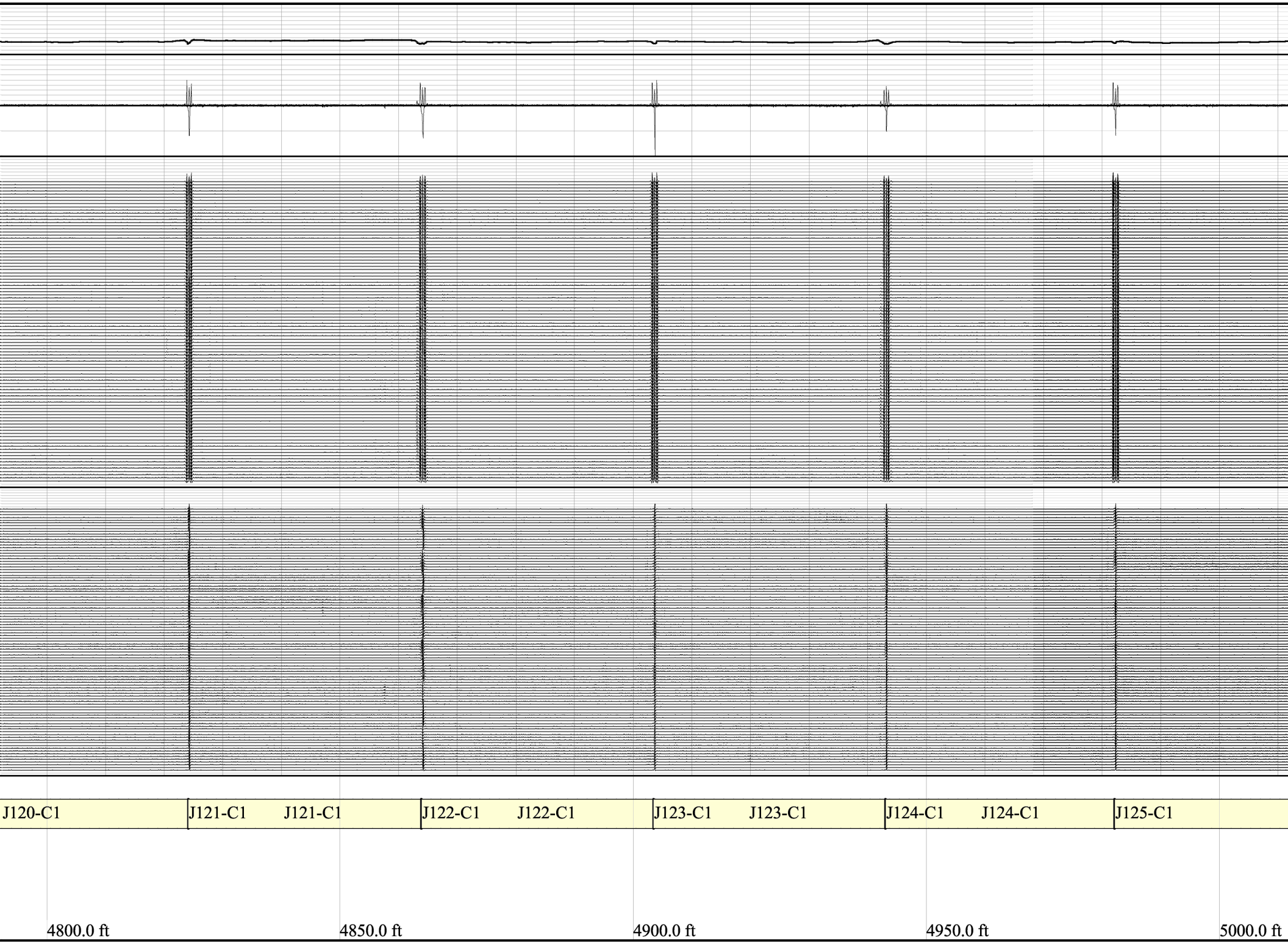

J93-C1
J93-C1
J94-C1
J94-C1
J95-C1
J95-C1
J96-C1
J96-C1
J97-C1
J97-C1
3700.0 ft
3750.0 ft
3800.0 ft
3850.0 ft
3900.0 ft

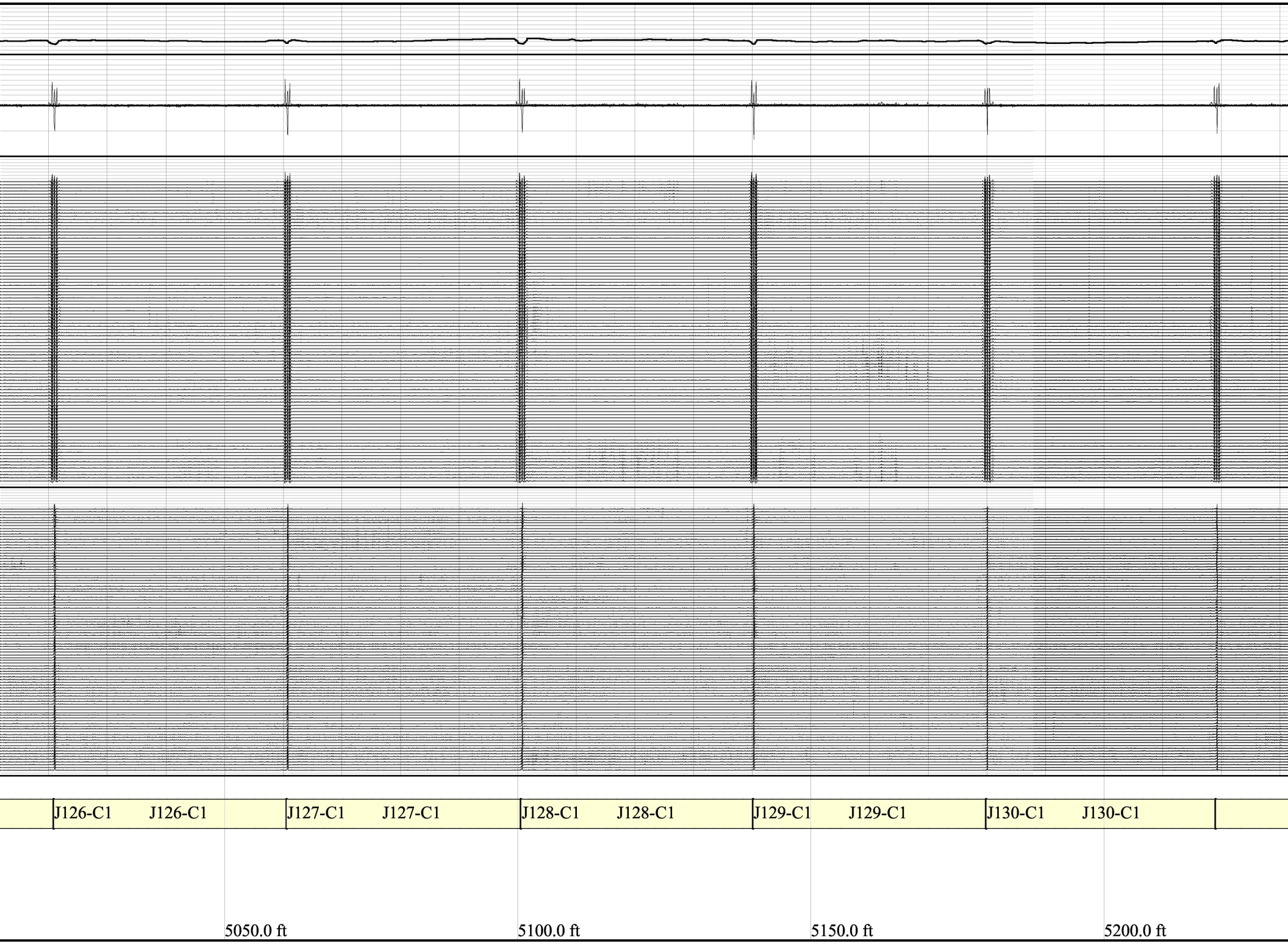

J98-C1
J99-C1
J99-C1
J100-C1
J100-C1
J101-C1
J101-C1
J102-C1
J102-C1
J103-C1
3950.0 ft
4000.0 ft
4050.0 ft
4100.0 ft

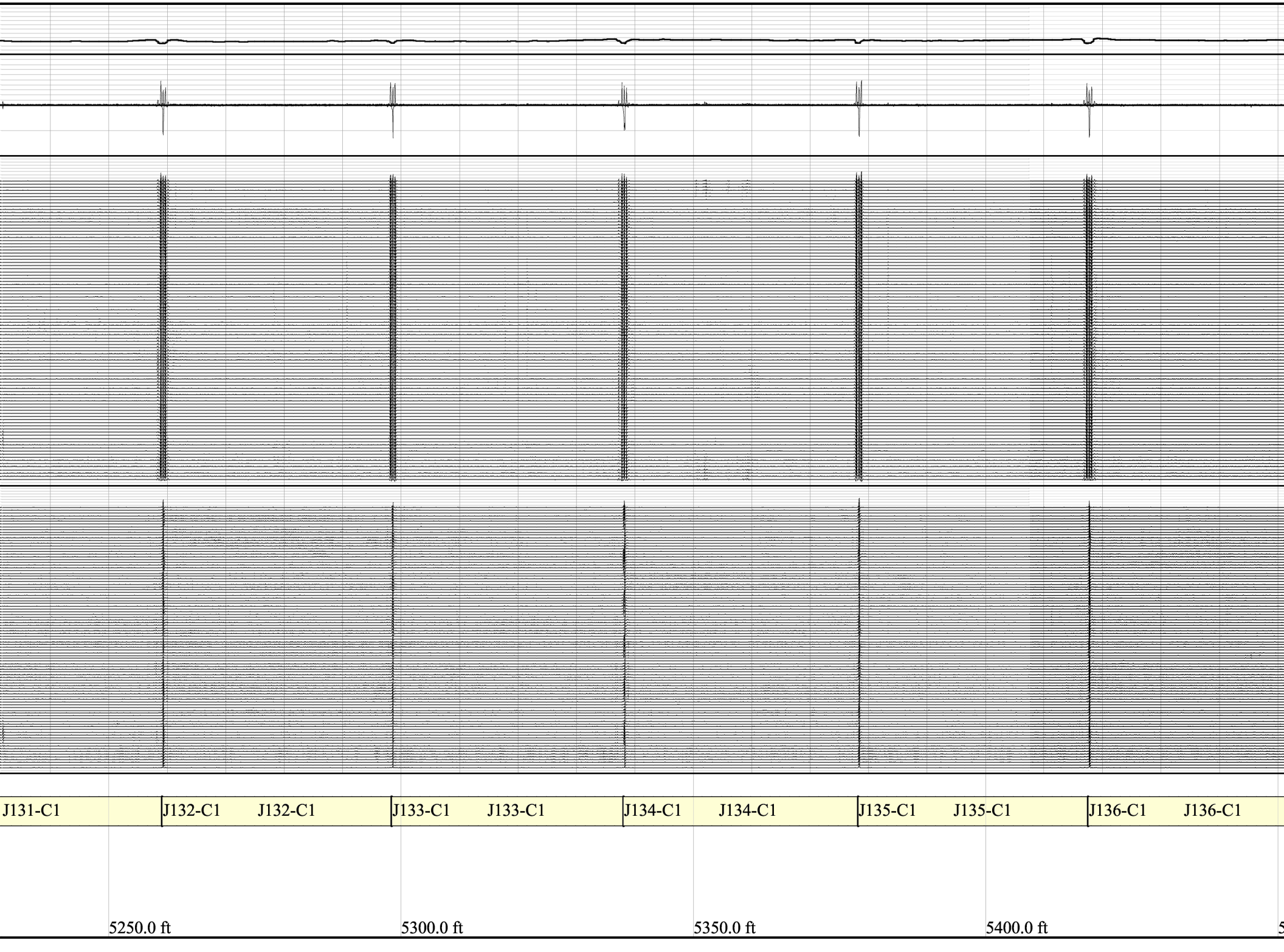

J103-C1
J104-C1
J104-C1
J105-C1
J105-C1
J106-C1
J106-C1
J107-C1
J107-C1
J108-C1
J108-C1
4150.0 ft
4200.0 ft
4250.0 ft
4300.0 ft

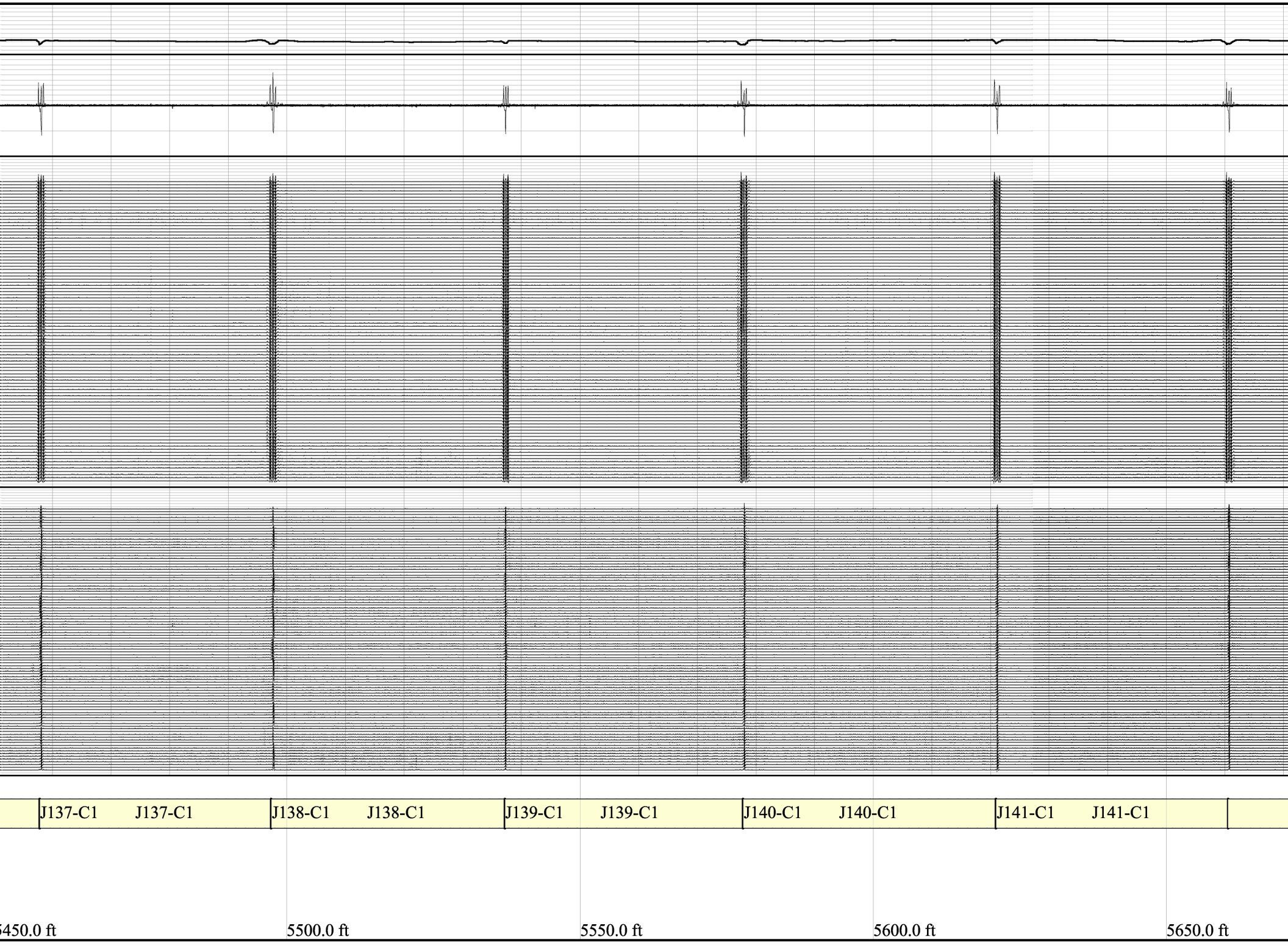

J109-C1
J109-C1
J110-C1
J110-C1
J111-C1
J111-C1
J112-C1
J112-C1
J113-C1
J113-C1
J114-C1
50.0 ft
4400.0 ft
4450.0 ft
4500.0 ft
4550.0 ft

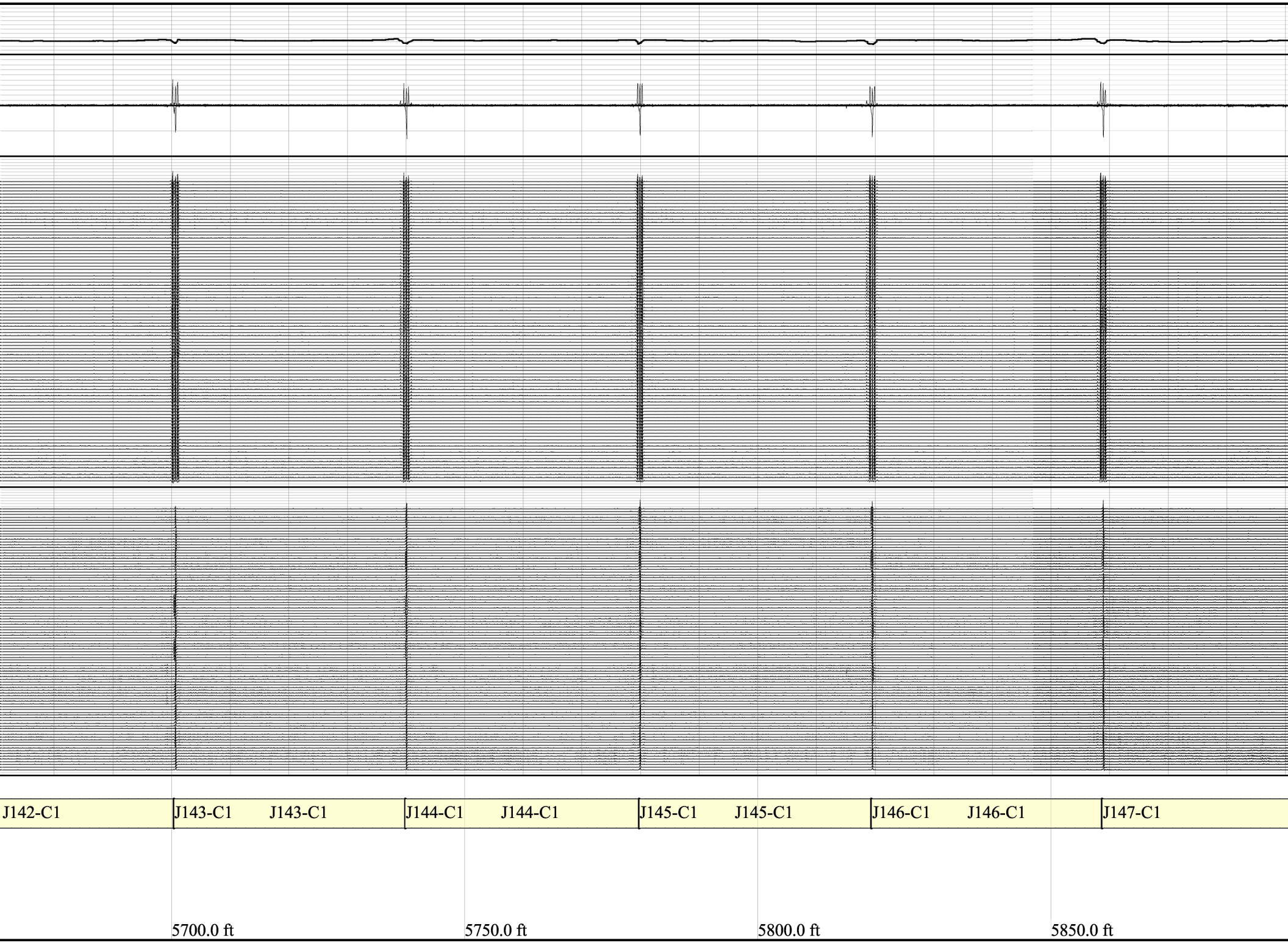

J115-C1
J115-C1
J116-C1
J116-C1
J117-C1
J117-C1
J118-C1
J118-C1
J119-C1
J119-C1
4600.0 ft
4650.0 ft
4700.0 ft
4750.0 ft

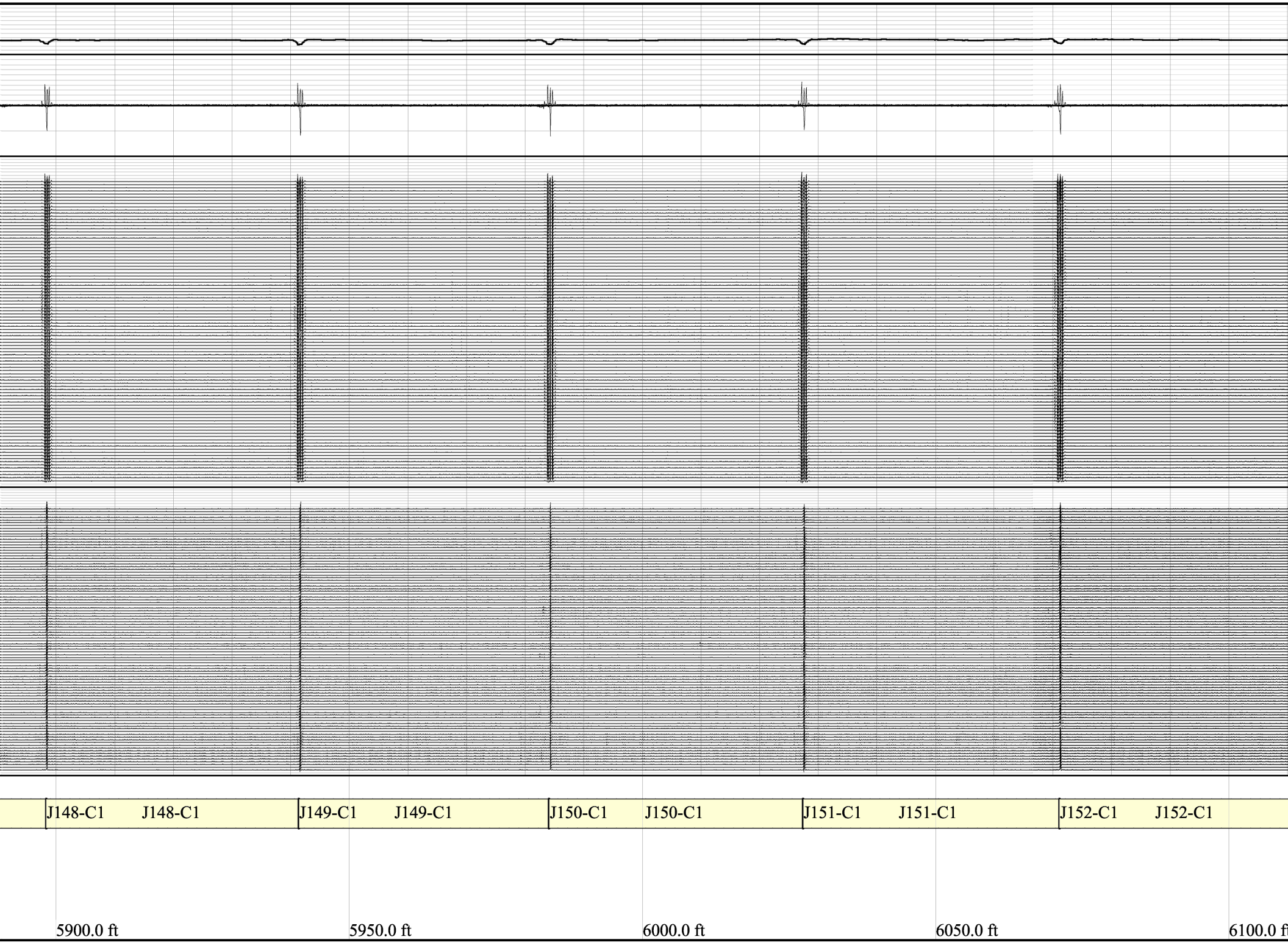

J120-C1
J121-C1
J121-C1
J122-C1
J122-C1
J123-C1
J123-C1
J124-C1
J124-C1
J125-C1
4800.0 ft
4850.0 ft
4900.0 ft
4950.0 ft
5000.0 ft

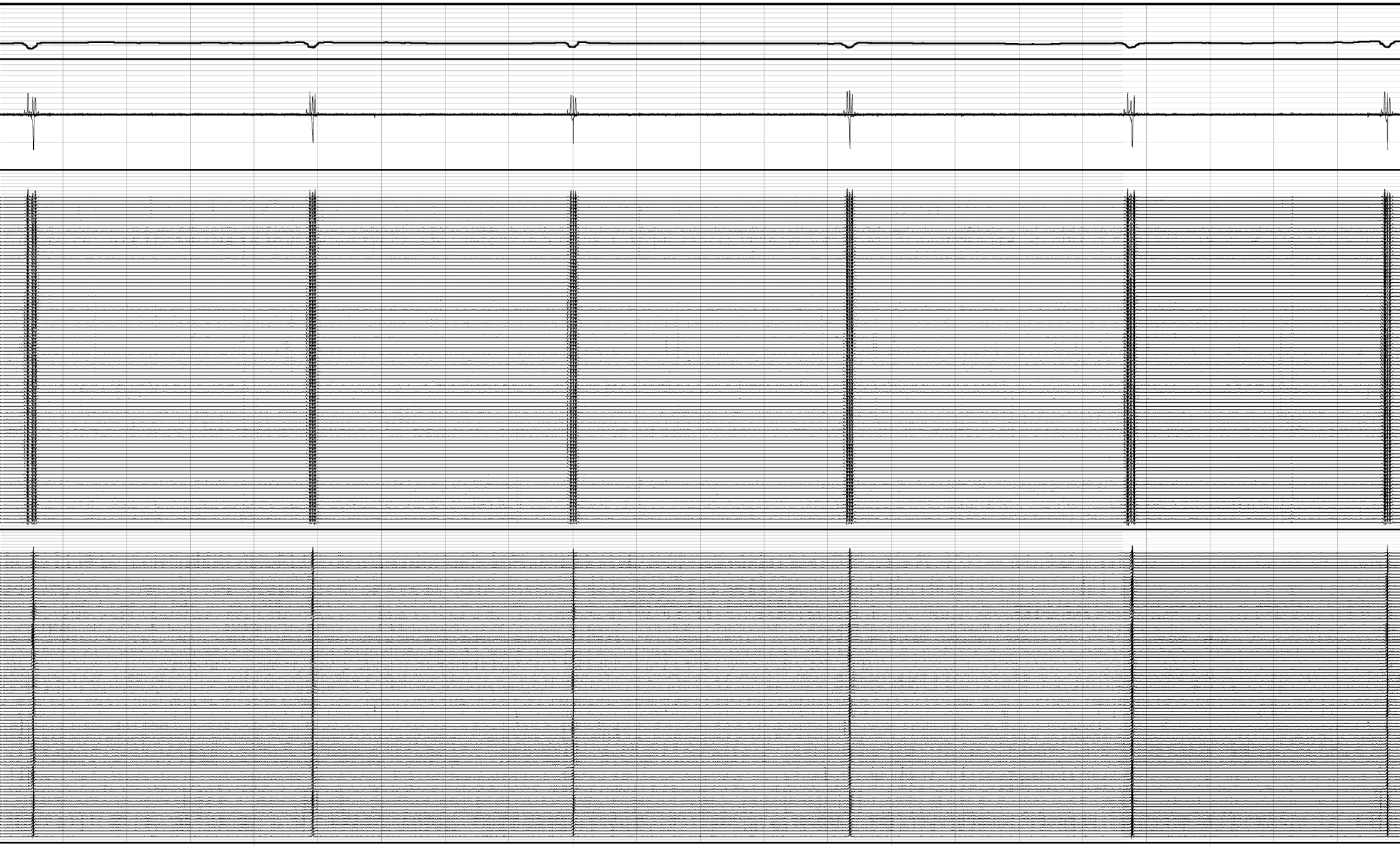

J126-C1
J126-C1
J127-C1
J127-C1
J128-C1
J128-C1
J129-C1
J129-C1
J130-C1
J130-C1
5050.0 ft
5100.0 ft
5150.0 ft
5200.0 ft

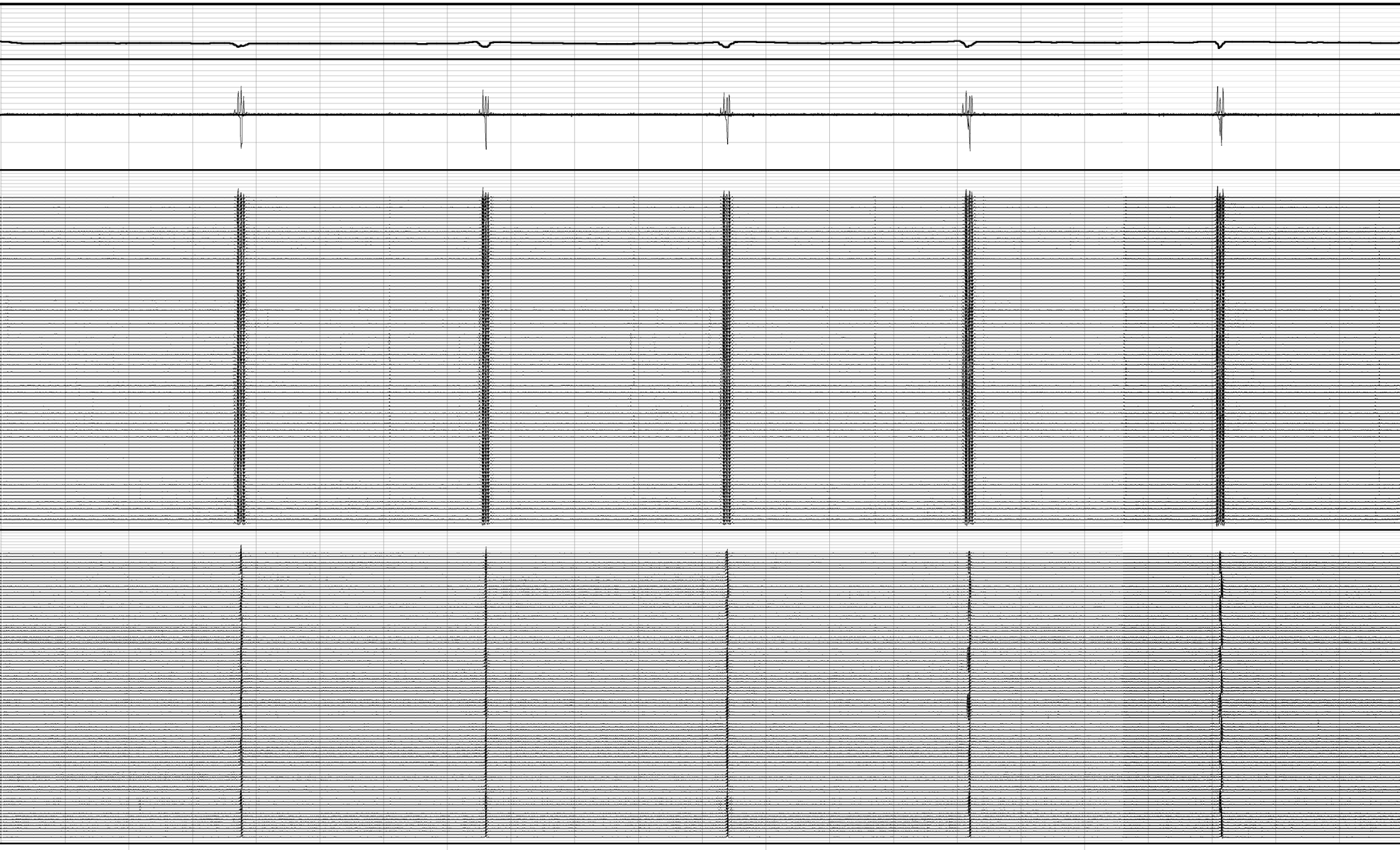

J131-C1
J132-C1
J132-C1
J133-C1
J133-C1
J134-C1
J134-C1
J135-C1
J135-C1
J136-C1
J136-C1
5250.0 ft
5300.0 ft
5350.0 ft
5400.0 ft

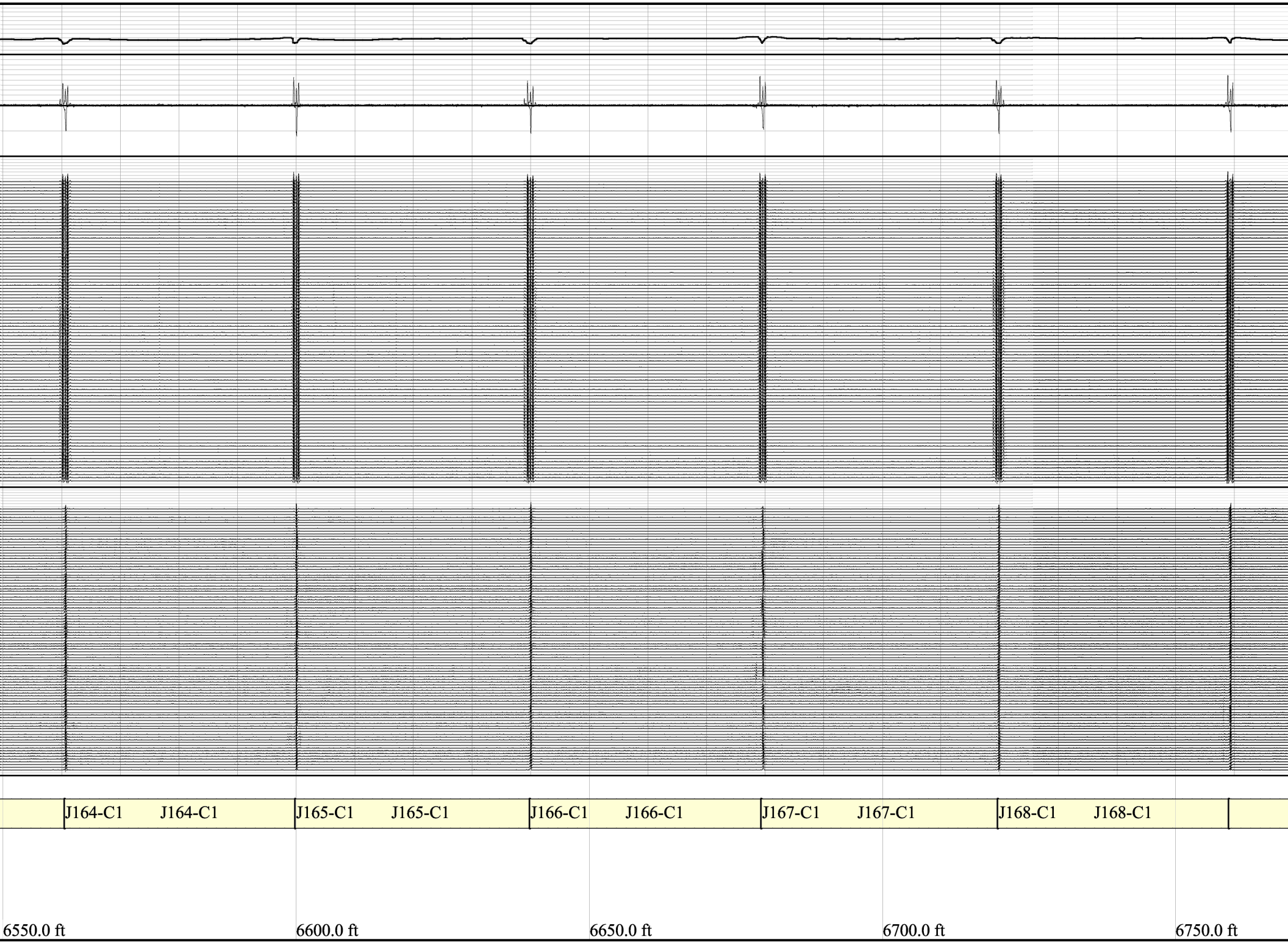

J137-C1
J137-C1
J138-C1
J138-C1
J139-C1
J139-C1
J140-C1
J140-C1
J141-C1
J141-C1
5450.0 ft
5500.0 ft
5550.0 ft
5600.0 ft
5650.0 ft

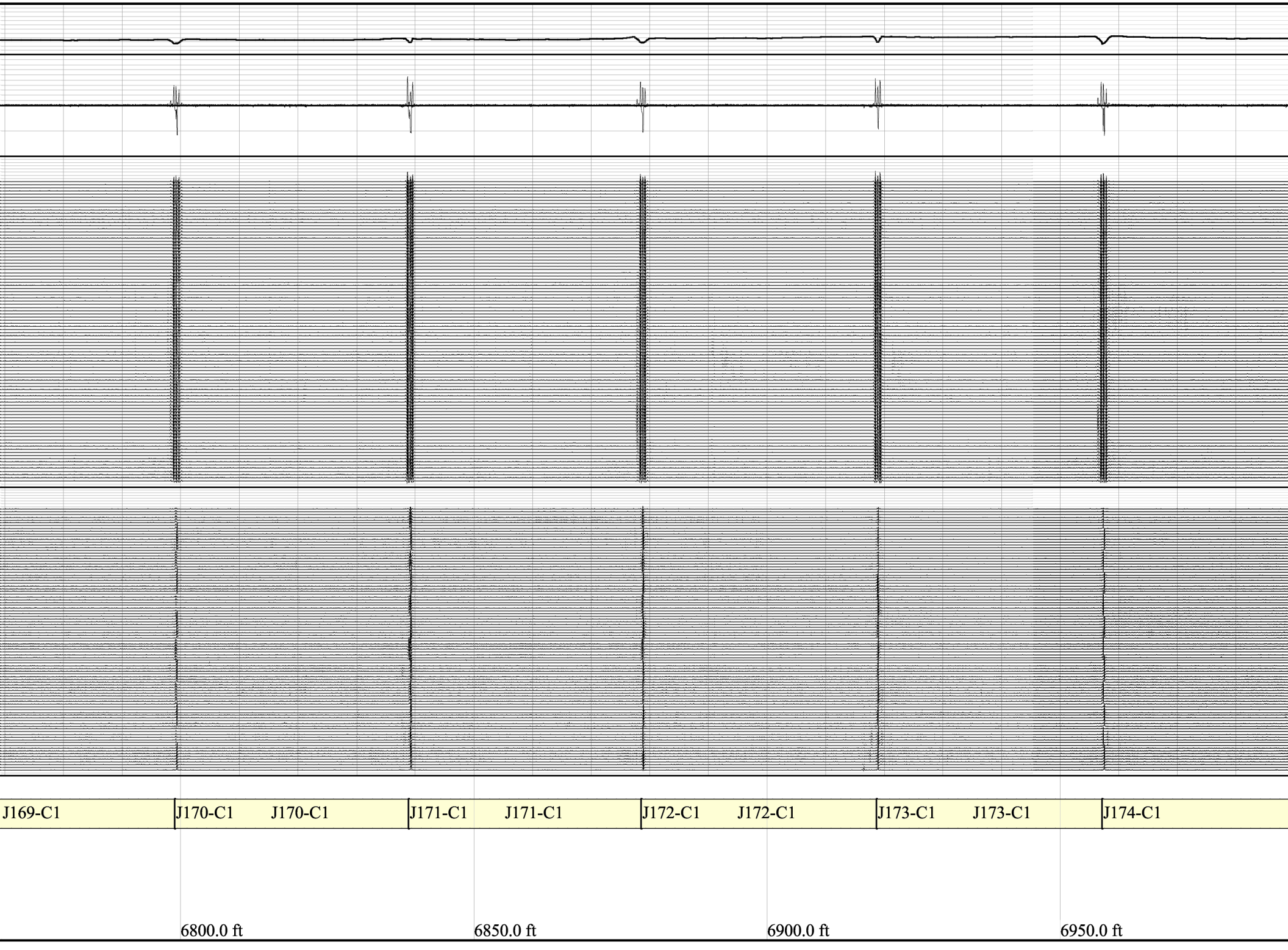

J142-C1
J143-C1
J143-C1
J144-C1
J144-C1
J145-C1
J145-C1
J146-C1
J146-C1
J147-C1
5700.0 ft
5750.0 ft
5800.0 ft
5850.0 ft

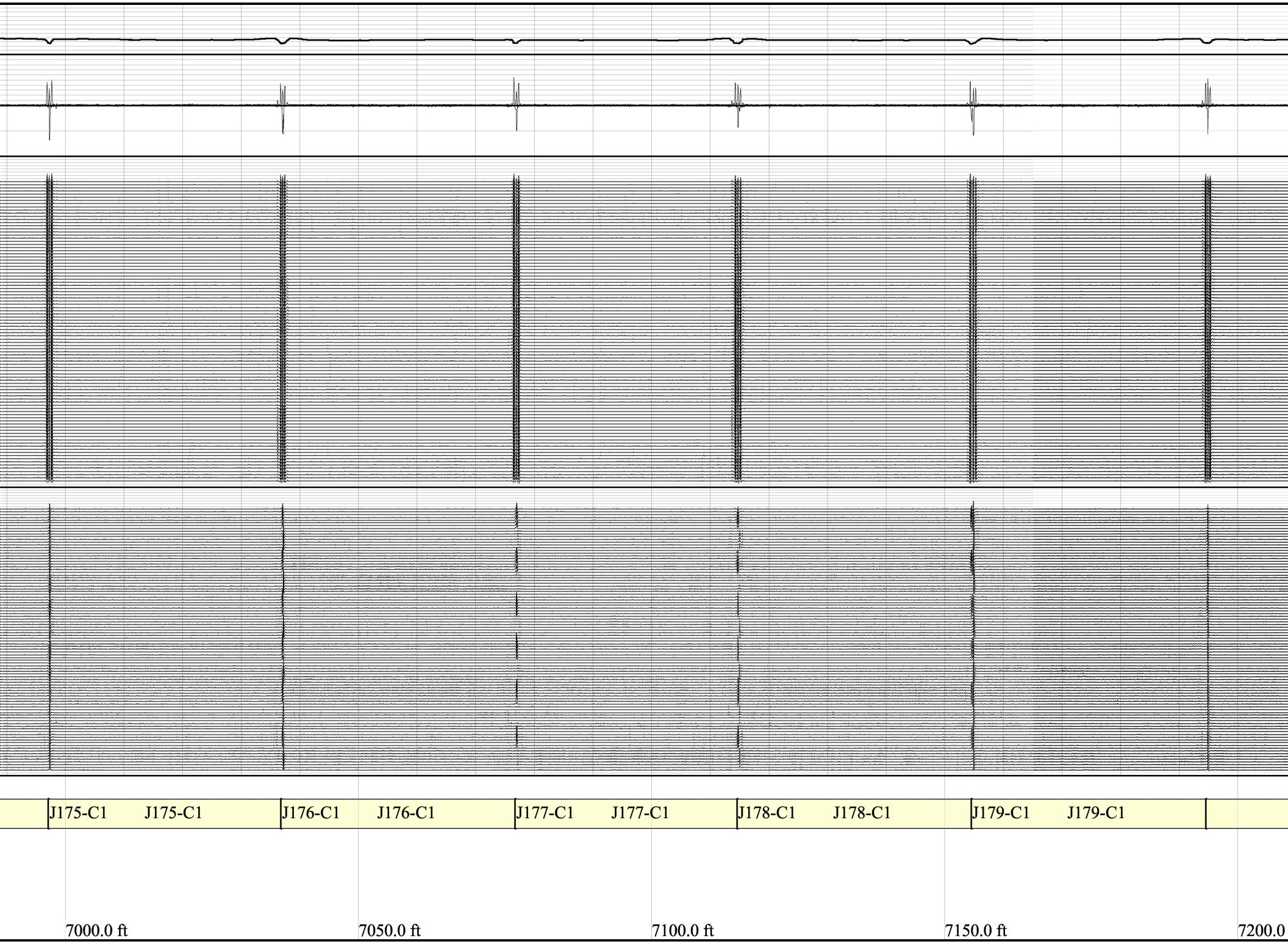

J148-C1
J148-C1
J149-C1
J149-C1
J150-C1
J150-C1
J151-C1
J151-C1
J152-C1
J152-C1
5900.0 ft
5950.0 ft
6000.0 ft
6050.0 ft
6100.0 f

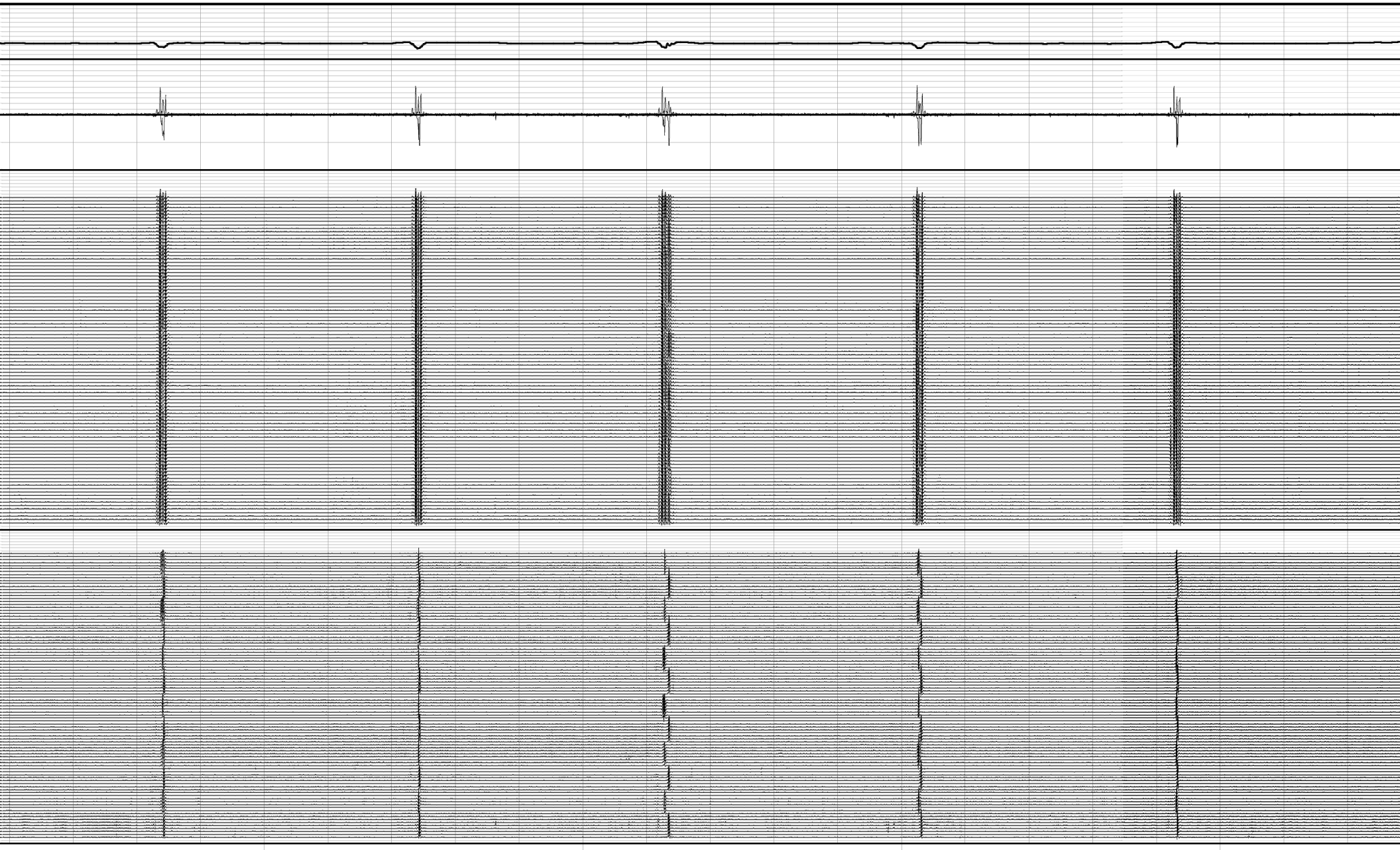

J153-C1
J153-C1
J154-C1
J154-C1
J155-C1
J155-C1
J156-C1
J156-C1
J157-C1
J157-C1
6150.0 ft
6200.0 ft
6250.0 ft
6300.0 ft

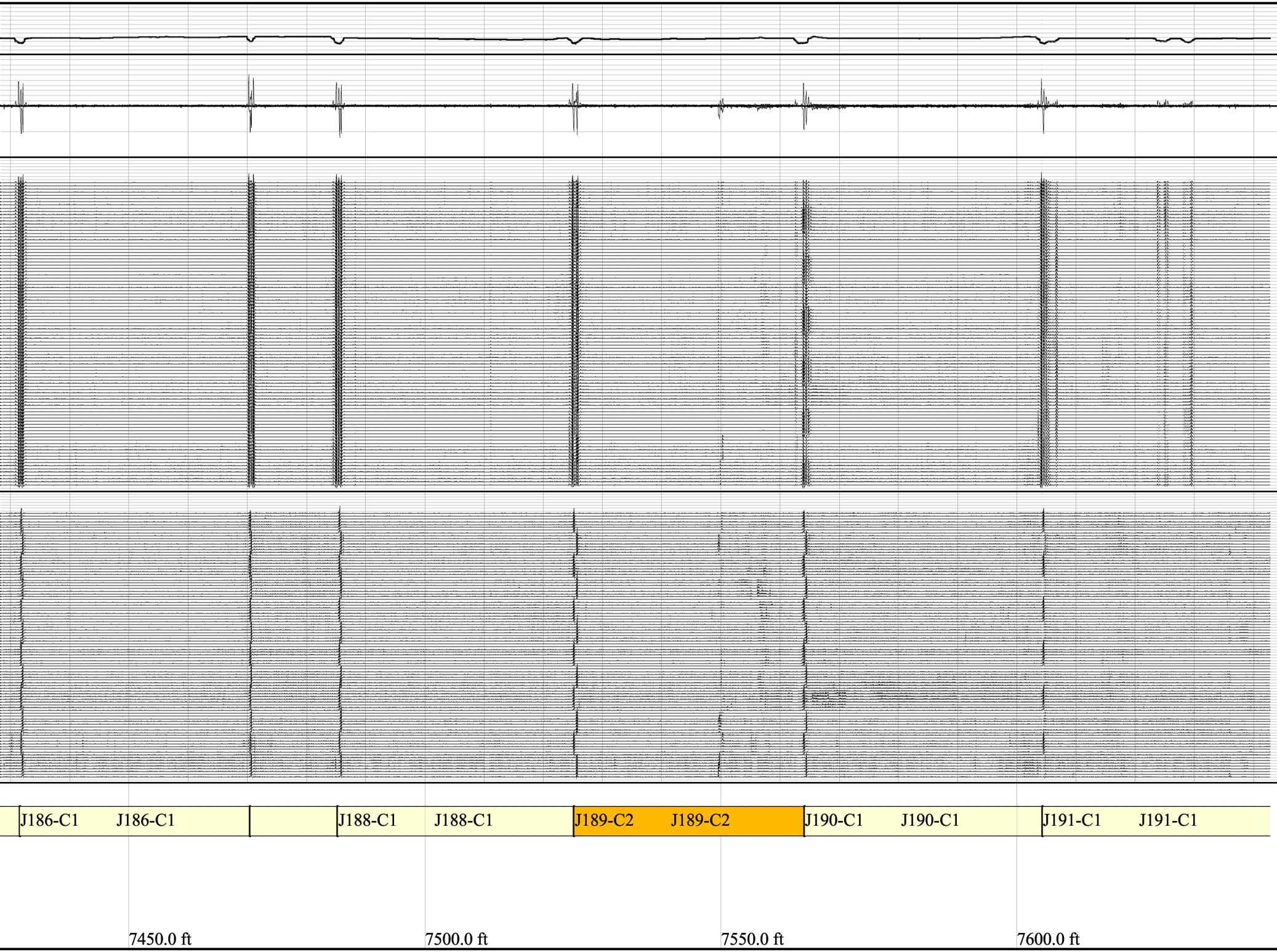

J158-C1
J158-C1
J159-C1
J159-C1
J160-C1
J160-C1
J161-C1
J161-C1
J162-C1
J162-C1
J163-C1
6350.0 ft
6400.0 ft
6450.0 ft
6500.0 ft


J164-C1
J164-C1
J165-C1
J165-C1
J166-C1
J166-C1
J167-C1
J167-C1
J168-C1
J168-C1
6550.0 ft
6600.0 ft
6650.0 ft
6700.0 ft
6750.0 ft


J169-C1
J170-C1
J170-C1
J171-C1
J171-C1
J172-C1
J172-C1
J173-C1
J173-C1
J174-C1
6800.0 ft
6850.0 ft
6900.0 ft
6950.0 ft


J175-C1
J175-C1
J176-C1
J176-C1
J177-C1
J177-C1
J178-C1
J178-C1
J179-C1
J179-C1
7000.0 ft
7050.0 ft
7100.0 ft
7150.0 ft
7200.0


J180-C1
J181-C1
J181-C1
J182-C1
J182-C1
J183-C1
J183-C1
J184-C1
J184-C1
J185-C1
J185-C1
ft
7250.0 ft
7300.0 ft
7350.0 ft
7400.0 ft


J186-C1
J186-C1
J188-C1
J188-C1
J189-C2
J189-C2
J190-C1
J190-C1
J191-C1
J191-C1
7450.0 ft
7500.0 ft
7550.0 ft
7600.0 ft

Joint Summary

Southern California Gas Company
Aliso Canyon
Porter 25R

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	27.21	15.32	9.625	0.472	47.0	17	36.89	8688	1
JT-2	42.52	44.62	9.625	0.472	47.0	0			1
JT-3	87.14	44.80	9.625	0.472	47.0	0			1
JT-4	131.94	45.07	9.625	0.472	47.0	0			1
JT-5	177.01	41.24	9.625	0.472	47.0	0			1
JT-6	218.25	43.87	9.625	0.472	47.0	0			1
JT-7	262.12	41.70	9.625	0.472	47.0	0			1
JT-8	303.82	11.73	9.625	0.472	47.0	0			1
JT-9	315.55	37.40	9.625	0.472	47.0	0			1
JT-10	352.95	39.86	9.625	0.472	47.0	0			1
JT-11	392.81	39.97	9.625	0.472	47.0	0			1
JT-12	432.77	39.78	9.625	0.472	47.0	0			1
JT-13	472.56	39.90	9.625	0.472	47.0	0			1
JT-14	512.46	39.80	9.625	0.472	47.0	0			1
JT-15	552.26	38.60	9.625	0.472	47.0	0			1
JT-16	590.86	39.75	9.625	0.472	47.0	0			1
JT-17	630.61	38.53	9.625	0.472	47.0	0			1
JT-18	669.14	39.87	9.625	0.472	47.0	0			1
JT-19	709.01	39.25	9.625	0.472	47.0	0			1
JT-20	748.26	39.88	9.625	0.472	47.0	0			1
JT-21	788.14	39.90	9.625	0.472	47.0	0			1
JT-22	828.04	39.89	9.625	0.472	47.0	0			1
JT-23	867.93	39.93	9.625	0.472	47.0	0			1
JT-24	907.86	39.89	9.625	0.472	47.0	0			1
JT-25	947.76	39.80	9.625	0.472	47.0	0			1
JT-26	987.55	39.46	9.625	0.472	47.0	0			1
JT-27	1027.01	39.95	9.625	0.472	47.0	0			1
JT-28	1066.97	39.87	9.625	0.472	47.0	0			1
JT-29	1106.83	39.94	9.625	0.472	47.0	0			1
JT-30	1146.78	39.86	9.625	0.472	47.0	0			1
JT-31	1186.63	37.95	9.625	0.472	47.0	0			1
JT-32	1224.58	39.77	9.625	0.472	47.0	0			1
JT-33	1264.36	39.79	9.625	0.472	47.0	0			1
JT-34	1304.15	39.87	9.625	0.472	47.0	0			1
JT-35	1344.03	38.83	9.625	0.472	47.0	0			1
JT-36	1382.86	38.15	9.625	0.472	47.0	0			1
JT-37	1421.00	39.89	9.625	0.472	47.0	0			1
JT-38	1460.89	39.90	9.625	0.472	47.0	0			1
JT-39	1500.79	36.27	9.625	0.472	47.0	0			1
JT-40	1537.06	39.77	9.625	0.472	47.0	0			1
JT-41	1576.84	39.88	9.625	0.472	47.0	0			1
JT-42	1616.72	39.90	9.625	0.472	47.0	0			1
JT-43	1656.62	39.87	9.625	0.472	47.0	0			1
JT-44	1696.49	39.87	9.625	0.472	47.0	0			1
JT-45	1736.37	39.82	9.625	0.472	47.0	0			1
JT-46	1776.18	39.88	9.625	0.472	47.0	0			1
JT-47	1816.06	39.88	9.625	0.472	47.0	0			1
JT-48	1855.95	39.88	9.625	0.472	47.0	0			1
JT-49	1895.83	44.45	9.625	0.472	47.0	0			1
JT-50	1940.28	45.50	9.625	0.472	47.0	0			1
JT-51	1985.79	45.42	9.625	0.472	47.0	0			1
JT-52	2031.21	45.77	9.625	0.472	47.0	0			1
JT-53	2076.98	44.36	9.625	0.472	47.0	0			1
JT-54	2121.34	43.69	9.625	0.472	47.0	0			1
JT-55	2165.03	46.45	9.625	0.472	47.0	0			1
JT-56	2211.48	45.76	9.625	0.472	47.0	0			1
JT-57	2257.24	44.56	9.625	0.472	47.0	0			1
JT-58	2301.80	43.65	9.625	0.472	47.0	0			1
JT-59	2345.45	43.02	9.625	0.472	47.0	0			1
JT-60	2388.47	39.56	9.625	0.472	47.0	0			1
JT-61	2428.03	37.05	9.625	0.472	47.0	0			1
JT-62	2465.08	39.86	9.625	0.472	47.0	0			1

JT-63	2504.94	44.15	9.625	0.472	47.0	0			1
JT-64	2549.10	40.32	9.625	0.472	47.0	0			1
JT-65	2589.42	43.75	9.625	0.472	47.0	0			1
JT-66	2633.17	39.98	9.625	0.472	47.0	0			1
JT-67	2673.16	39.88	9.625	0.472	47.0	0			1
JT-68	2713.03	39.81	9.625	0.472	47.0	0			1
JT-69	2752.85	39.13	9.625	0.472	47.0	0			1
JT-70	2791.98	39.84	9.625	0.472	47.0	0			1
JT-71	2831.82	42.99	9.625	0.472	47.0	0			1
JT-72	2874.80	40.09	9.625	0.472	47.0	0			1
JT-73	2914.90	39.95	9.625	0.472	47.0	0			1
JT-74	2954.84	39.78	9.625	0.472	47.0	0			1
JT-75	2994.62	14.58	9.625	0.472	47.0	0			1
JT-76	3009.20	44.58	9.625	0.472	47.0	0			1
JT-77	3053.78	45.21	9.625	0.472	47.0	0			1
JT-78	3098.99	44.37	9.625	0.472	47.0	0			1
JT-79	3143.36	44.29	9.625	0.472	47.0	0			1
JT-80	3187.65	40.00	9.625	0.472	47.0	0			1
JT-81	3227.65	39.70	9.625	0.472	47.0	0			1
JT-82	3267.35	40.02	9.625	0.472	47.0	0			1
JT-83	3307.37	39.70	9.625	0.472	47.0	0			1
JT-84	3347.07	40.10	9.625	0.472	47.0	0			1
JT-85	3387.17	39.84	9.625	0.472	47.0	0			1
JT-86	3427.01	39.79	9.625	0.472	47.0	0			1
JT-87	3466.80	40.05	9.625	0.472	47.0	0			1
JT-88	3506.85	40.08	9.625	0.472	47.0	0			1
JT-89	3546.93	39.75	9.625	0.472	47.0	0			1
JT-90	3586.68	39.80	9.625	0.472	47.0	0			1
JT-91	3626.47	39.90	9.625	0.472	47.0	0			1
JT-92	3666.37	39.91	9.625	0.472	47.0	0			1
JT-93	3706.28	39.90	9.625	0.472	47.0	0			1
JT-94	3746.19	40.11	9.625	0.472	47.0	0			1
JT-95	3786.30	39.59	9.625	0.472	47.0	0			1
JT-96	3825.89	40.02	9.625	0.472	47.0	0			1
JT-97	3865.91	39.75	9.625	0.472	47.0	0			1
JT-98	3905.66	38.66	9.625	0.472	47.0	0			1
JT-99	3944.32	43.47	9.625	0.472	47.0	0			1
JT-100	3987.78	43.52	9.625	0.472	47.0	0			1
JT-101	4031.30	39.98	9.625	0.472	47.0	0			1
JT-102	4071.28	39.94	9.625	0.472	47.0	0			1
JT-103	4111.22	39.97	9.625	0.472	47.0	0			1
JT-104	4151.19	39.45	9.625	0.472	47.0	0			1
JT-105	4190.65	39.97	9.625	0.472	47.0	0			1
JT-106	4230.62	39.75	9.625	0.472	47.0	0			1
JT-107	4270.38	39.63	9.625	0.472	47.0	0			1
JT-108	4310.01	39.99	9.625	0.472	47.0	0			1
JT-109	4350.01	39.45	9.625	0.472	47.0	0			1
JT-110	4389.45	39.09	9.625	0.472	47.0	0			1
JT-111	4428.54	39.85	9.625	0.472	47.0	0			1
JT-112	4468.39	39.88	9.625	0.472	47.0	0			1
JT-113	4508.27	39.79	9.625	0.472	47.0	0			1
JT-114	4548.06	39.82	9.625	0.472	47.0	0			1
JT-115	4587.88	39.91	9.625	0.472	47.0	0			1
JT-116	4627.78	39.88	9.625	0.472	47.0	0			1
JT-117	4667.67	39.82	9.625	0.472	47.0	0			1
JT-118	4707.49	39.24	9.625	0.472	47.0	0			1
JT-119	4746.73	38.00	9.625	0.472	47.0	0			1
JT-120	4784.73	39.41	9.625	0.472	47.0	0			1
JT-121	4824.15	39.77	9.625	0.472	47.0	0			1
JT-122	4863.92	39.60	9.625	0.472	47.0	0			1
JT-123	4903.52	39.56	9.625	0.472	47.0	0			1
JT-124	4943.08	39.09	9.625	0.472	47.0	0			1
JT-125	4982.17	38.70	9.625	0.472	47.0	0			1
JT-126	5020.87	39.75	9.625	0.472	47.0	0			1
JT-127	5060.62	40.01	9.625	0.472	47.0	0			1
JT-128	5100.63	39.52	9.625	0.472	47.0	0			1
JT-129	5140.16	39.82	9.625	0.472	47.0	18	5169.77	8742	1
JT-130	5179.98	39.14	9.625	0.472	47.0	16	5218.08	8599	1
JT-131	5219.12	40.06	9.625	0.472	47.0	0			1
JT-132	5259.18	39.30	9.625	0.472	47.0	0			1
JT-133	5298.48	39.58	9.625	0.472	47.0	0			1
JT-134	5338.06	40.16	9.625	0.472	47.0	0			1
JT-135	5378.22	39.39	9.625	0.472	47.0	0			1
JT-136	5417.61	40.27	9.625	0.472	47.0	0			1
JT-137	5457.88	39.49	9.625	0.472	47.0	0			1
JT-138	5497.38	39.84	9.625	0.472	47.0	0			1
JT-139	5537.22	40.62	9.625	0.472	47.0	0			1
JT-140	5577.84	43.16	9.625	0.472	47.0	0			1
JT-141	5621.00	39.54	9.625	0.472	47.0	0			1
JT-142	5660.54	39.92	9.625	0.472	47.0	0			1
JT-143	5700.46	39.47	9.625	0.472	47.0	0			1
JT-144	5739.93	39.85	9.625	0.472	47.0	0			1
JT-145	5779.78	39.63	9.625	0.472	47.0	0			1
JT-146	5819.41	39.37	9.625	0.472	47.0	0			1
JT-147	5858.78	39.58	9.625	0.472	47.0	0			1

JT-148	5898.36	43.08	9.625	0.472	47.0	0			1
JT-149	5941.44	42.72	9.625	0.472	47.0	0			1
JT-150	5984.16	43.30	9.625	0.472	47.0	0			1
JT-151	6027.46	43.68	9.625	0.472	47.0	0			1
JT-152	6071.15	43.74	9.625	0.472	47.0	0			1
JT-153	6114.89	44.16	9.625	0.472	47.0	0			1
JT-154	6159.05	40.91	9.625	0.472	47.0	0			1
JT-155	6199.96	43.37	9.625	0.472	47.0	0			1
JT-156	6243.34	44.07	9.625	0.472	47.0	0			1
JT-157	6287.41	40.20	9.625	0.472	47.0	0			1
JT-158	6327.61	39.83	9.625	0.472	47.0	0			1
JT-159	6367.44	38.34	9.625	0.472	47.0	0			1
JT-160	6405.78	37.90	9.625	0.472	47.0	0			1
JT-161	6443.67	38.05	9.625	0.472	47.0	0			1
JT-162	6481.72	39.39	9.625	0.472	47.0	0			1
JT-163	6521.11	39.41	9.625	0.472	47.0	0			1
JT-164	6560.53	39.37	9.625	0.472	47.0	0			1
JT-165	6599.89	39.97	9.625	0.472	47.0	0			1
JT-166	6639.87	39.52	9.625	0.472	47.0	0			1
JT-167	6679.39	40.35	9.625	0.472	47.0	0			1
JT-168	6719.74	39.40	9.625	0.472	47.0	0			1
JT-169	6759.14	39.94	9.625	0.472	47.0	0			1
JT-170	6799.08	39.87	9.625	0.472	47.0	0			1
JT-171	6838.96	39.69	9.625	0.472	47.0	0			1
JT-172	6878.65	40.14	9.625	0.472	47.0	0			1
JT-173	6918.79	38.45	9.625	0.472	47.0	0			1
JT-174	6957.24	39.93	9.625	0.472	47.0	0			1
JT-175	6997.18	39.68	9.625	0.472	47.0	0			1
JT-176	7036.86	39.95	9.625	0.472	47.0	0			1
JT-177	7076.80	37.87	9.625	0.472	47.0	0			1
JT-178	7114.67	39.93	9.625	0.472	47.0	0			1
JT-179	7154.61	40.06	9.625	0.472	47.0	0			1
JT-180	7194.66	39.34	9.625	0.472	47.0	0			1
JT-181	7234.00	40.05	9.625	0.472	47.0	0			1
JT-182	7274.05	38.80	9.625	0.472	47.0	0			1
JT-183	7312.85	39.92	9.625	0.472	47.0	0			1
JT-184	7352.78	40.31	9.625	0.472	47.0	0			1
JT-185	7393.09	38.54	9.625	0.472	47.0	0			1
JT-186	7431.63	38.92	9.625	0.472	47.0	0			1
JT-187	7470.56	14.75	9.625	0.472	47.0	0			1
JT-188	7485.31	39.93	9.625	0.472	47.0	0			1
JT-189	7525.24	38.92	9.625	0.472	47.0	27	7550.18	8541	2
JT-190	7564.16	40.23	9.625	0.472	47.0	0			1
JT-191	7604.40	38.41	9.625	0.472	47.0	0			1