HR Vertilog

Magnetic Flux Leakage Inspection

Company	Southern California Gas Company
Well	Porter 69J
Field	Aliso Canyon
County	Los Angeles
State	California
Location:	

Section 28	Township 4N	Range 16W	

Date	Mar. 31, 2016
Service Order	US106652
Recorded by	B. Deal, T. Englehart
Witnessed by	J. Herrin
API Serial No.	04-037-2422

Permanent Datum:	G.L.	Elevation: 2366.000 ft.		Depth	8035.000
Log Measured From:	K.B.	29.000 ft. above Perm. Datum		Btm. Log Interval	7496.470
Drilling Measured From:	K.B.	29.000 ft. above Perm. Datum		Top Log Interval	36.160
				Fluid Type	KCL

Casing Data

Size	Weight	Grade	From	To	Length
9 5/8 inch	47.0 lb/ft	N80 (HR Std)	Surface	7676	7676.0
5 inch	N/A	Liner	7552	8019	467.0
13.375 inch	54.5 lb/ft.	K-55	Surface	874	874.0

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	EA10360726	

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
Tool Number	4997-00
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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

Trouble getting HRVRT down hole. Added additional sinker bar weight and adjusted pad tension in order to get the HRVRT down hole.

Interpretation

HRVRT analysis was depth correlated to Baker Hughes Caliper logged 30 Mar 2016. Caliper was correlated to BHI SBT logged 27 Dec 2001.

The top joint is a short joint.

HRVRT Analysis shows HRVRT pad eccentricity in this well resulting in variations in metal loss sensor amplitudes over the circumference of the casing. Metal loss features could be underestimated due the the eccentricity of the pad contacts. There was no observed reportable metal loss features identified which exceeds the 15% metal loss cutoff over the observed limited number of Metal loss sensors (pads) that correctly covered the circumference of this casing.

37.09 ft	Hardware - External Casing Head Response.
878.67 ft	Hardware - Bottom of 13 3/8" External Casing.
1141.54 ft	Centralizer example - 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	36.16	47.50	11.34	Class 1	-	-	-	-
2	47.50	94.41	46.91	Class 1	-	-	-	-
3	94.41	141.30	46.89	Class 1	-	-	-	-
4	141.30	188.23	46.93	Class 1	-	-	-	-
5	188.23	234.29	46.06	Class 1	-	-	-	-
6	234.29	280.82	46.53	Class 1	-	-	-	-
7	280.82	327.70	46.88	Class 1	-	-	-	-
8	327.70	374.62	46.92	Class 1	-	-	-	-
9	374.62	419.04	44.42	Class 1	-	-	-	-
10	419.04	462.94	43.90	Class 1	-	-	-	-
11	462.94	507.75	44.81	Class 1	-	-	-	-
12	507.75	550.19	42.44	Class 1	-	-	-	-
13	550.19	595.16	44.97	Class 1	-	-	-	-
14	595.16	641.42	46.26	Class 1	-	-	-	-
15	641.42	683.47	42.05	Class 1	-	-	-	-
16	683.47	729.33	45.86	Class 1	-	-	-	-
17	729.33	775.65	46.32	Class 1	-	-	-	-
18	775.65	820.28	44.63	Class 1	-	-	-	-
19	820.28	866.83	46.55	Class 1	-	-	-	-
20	866.83	913.39	46.56	Class 1	-	-	-	-
21	913.39	956.89	43.50	Class 1	-	-	-	-
22	956.89	1002.41	45.52	Class 1	-	-	-	-
23	1002.41	1049.11	46.70	Class 1	-	-	-	-
24	1049.11	1095.26	46.15	Class 1	-	-	-	-
25	1095.26	1141.37	46.11	Class 1	-	-	-	-
26	1141.37	1186.97	45.60	Class 1	-	-	-	-
27	1186.97	1232.72	45.75	Class 1	-	-	-	-
28	1232.72	1278.11	45.39	Class 1	-	-	-	-
29	1278.11	1321.99	43.88	Class 1	-	-	-	-
30	1321.99	1369.30	47.31	Class 1	-	-	-	-
31	1369.30	1416.65	47.35	Class 1	-	-	-	-
32	1416.65	1462.93	46.28	Class 1	-	-	-	-
33	1462.93	1510.21	47.28	Class 1	-	-	-	-
34	1510.21	1555.28	45.07	Class 1	-	-	-	-
35	1555.28	1601.12	45.84	Class 1	-	-	-	-
36	1601.12	1647.04	45.92	Class 1	-	-	-	-
37	1647.04	1692.27	45.23	Class 1	-	-	-	-
38	1692.27	1737.96	45.69	Class 1	-	-	-	-
39	1737.96	1784.76	46.80	Class 1	-	-	-	-
40	1784.76	1831.30	46.54	Class 1	-	-	-	-
41	1831.30	1878.29	46.99	Class 1	-	-	-	-
42	1878.29	1923.92	45.63	Class 1	-	-	-	-
43	1923.92	1969.80	45.88	Class 1	-	-	-	-
44	1969.80	2016.40	46.60	Class 1	-	-	-	-
45	2016.40	2062.72	46.32	Class 1	-	-	-	-
46	2062.72	2107.20	44.48	Class 1	-	-	-	-
47	2107.20	2149.52	42.32	Class 1	-	-	-	-
48	2149.52	2194.09	44.57	Class 1	-	-	-	-
49	2194.09	2239.69	45.60	Class 1	-	-	-	-
50	2239.69	2286.19	46.50	Class 1	-	-	-	-
51	2286.19	2332.46	46.27	Class 1	-	-	-	-
52	2332.46	2378.63	46.17	Class 1	-	-	-	-
53	2378.63	2425.37	46.74	Class 1	-	-	-	-
54	2425.37	2472.05	46.68	Class 1	-	-	-	-
55	2472.05	2518.85	46.80	Class 1	-	-	-	-
56	2518.85	2565.35	46.50	Class 1	-	-	-	-
57	2565.35	2609.52	44.17	Class 1	-	-	-	-
58	2609.52	2655.95	46.43	Class 1	-	-	-	-
59	2655.95	2702.73	46.78	Class 1	-	-	-	-

60	2702.73	2746.57	43.84	Class 1	-	-	-	-
61	2746.57	2792.19	45.62	Class 1	-	-	-	-
62	2792.19	2839.04	46.85	Class 1	-	-	-	-
63	2839.04	2885.81	46.77	Class 1	-	-	-	-
64	2885.81	2932.82	47.01	Class 1	-	-	-	-
65	2932.82	2980.06	47.24	Class 1	-	-	-	-
66	2980.06	3026.42	46.36	Class 1	-	-	-	-
67	3026.42	3072.24	45.82	Class 1	-	-	-	-
68	3072.24	3119.49	47.25	Class 1	-	-	-	-
69	3119.49	3165.29	45.80	Class 1	-	-	-	-
70	3165.29	3208.27	42.98	Class 1	-	-	-	-
71	3208.27	3255.19	46.92	Class 1	-	-	-	-
72	3255.19	3300.86	45.67	Class 1	-	-	-	-
73	3300.86	3347.45	46.59	Class 1	-	-	-	-
74	3347.45	3394.39	46.94	Class 1	-	-	-	-
75	3394.39	3440.96	46.57	Class 1	-	-	-	-
76	3440.96	3485.28	44.32	Class 1	-	-	-	-
77	3485.28	3530.66	45.38	Class 1	-	-	-	-
78	3530.66	3577.31	46.65	Class 1	-	-	-	-
79	3577.31	3623.09	45.78	Class 1	-	-	-	-
80	3623.09	3669.75	46.66	Class 1	-	-	-	-
81	3669.75	3713.43	43.68	Class 1	-	-	-	-
82	3713.43	3756.17	42.74	Class 1	-	-	-	-
83	3756.17	3793.35	37.18	Class 1	-	-	-	-
84	3793.35	3838.21	44.86	Class 1	-	-	-	-
85	3838.21	3884.80	46.59	Class 1	-	-	-	-
86	3884.80	3931.69	46.89	Class 1	-	-	-	-
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122	5551.17	5598.22	47.05	Class 1	-	-	-	-
123	5598.22	5644.21	45.99	Class 1				

123	5598.22	5644.21	45.99	Class 1	-	-	-	-
124	5644.21	5690.59	46.38	Class 1	-	-	-	-
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139	6337.62	6381.03	43.41	Class 1	-	-	-	-
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141	6427.56	6474.73	47.17	Class 1	-	-	-	-
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143	6522.31	6569.02	46.71	Class 1	-	-	-	-
144	6569.02	6616.39	47.37	Class 1	-	-	-	-
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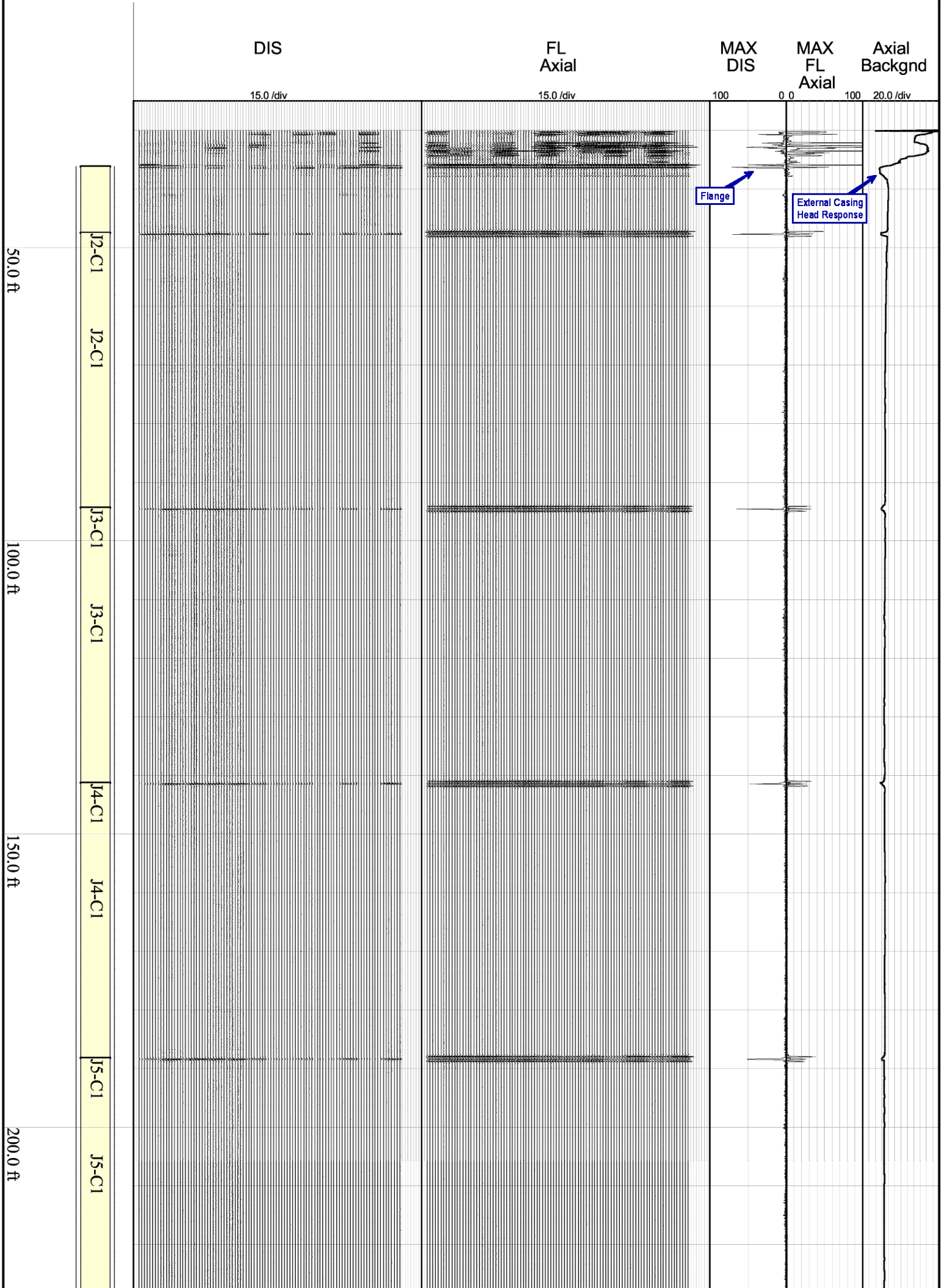
146	6663.82	6710.79	46.97	Class 1	-	-	-	-
147	6710.79	6758.32	47.53	Class 1	-	-	-	-
148	6758.32	6803.73	45.41	Class 1	-	-	-	-
149	6803.73	6850.66	46.93	Class 1	-	-	-	-
150	6850.66	6897.63	46.97	Class 1	-	-	-	-
151	6897.63	6945.08	47.45	Class 1	-	-	-	-
152	6945.08	6992.41	47.33	Class 1	-	-	-	-
153	6992.41	7039.68	47.27	Class 1	-	-	-	-
154	7039.68	7086.58	46.90	Class 1	-	-	-	-
155	7086.58	7133.31	46.73	Class 1	-	-	-	-
156	7133.31	7180.03	46.72	Class 1	-	-	-	-
157	7180.03	7227.34	47.31	Class 1	-	-	-	-
158	7227.34	7274.58	47.24	Class 1	-	-	-	-
159	7274.58	7321.97	47.39	Class 1	-	-	-	-
160	7321.97	7369.08	47.11	Class 1	-	-	-	-
161	7369.08	7416.57	47.49	Class 1	-	-	-	-
162	7416.57	7461.35	44.78	Class 1	-	-	-	-
163	7461.35	7496.47	35.12	Class 1	-	-	-	-

Southern California Gas Company Porter 69J

File 20160331_07173A_RSP_0_0_0_0_0.mvl

Main Pass
5" / 100'

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


DIS
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FL
Axial
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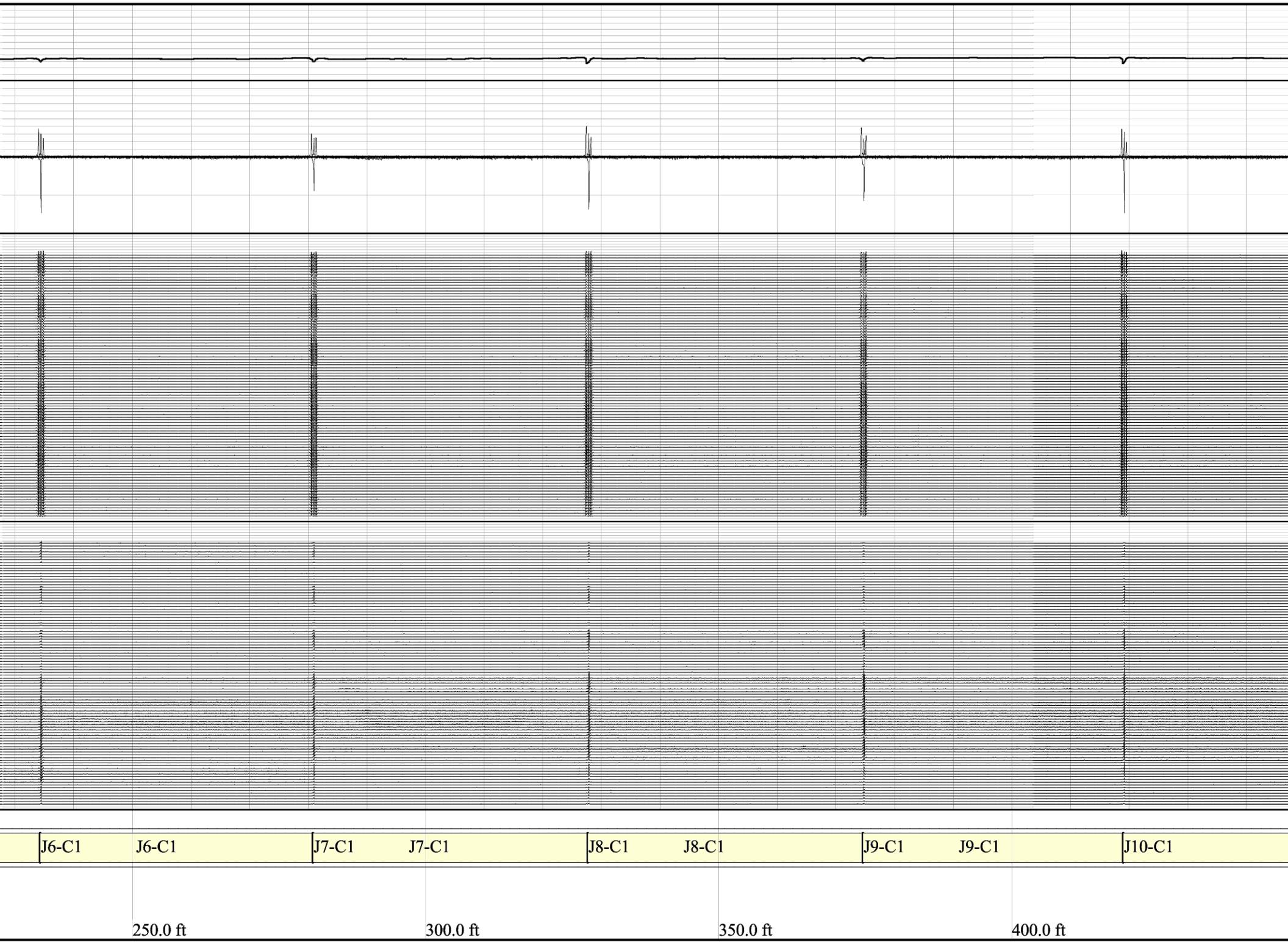
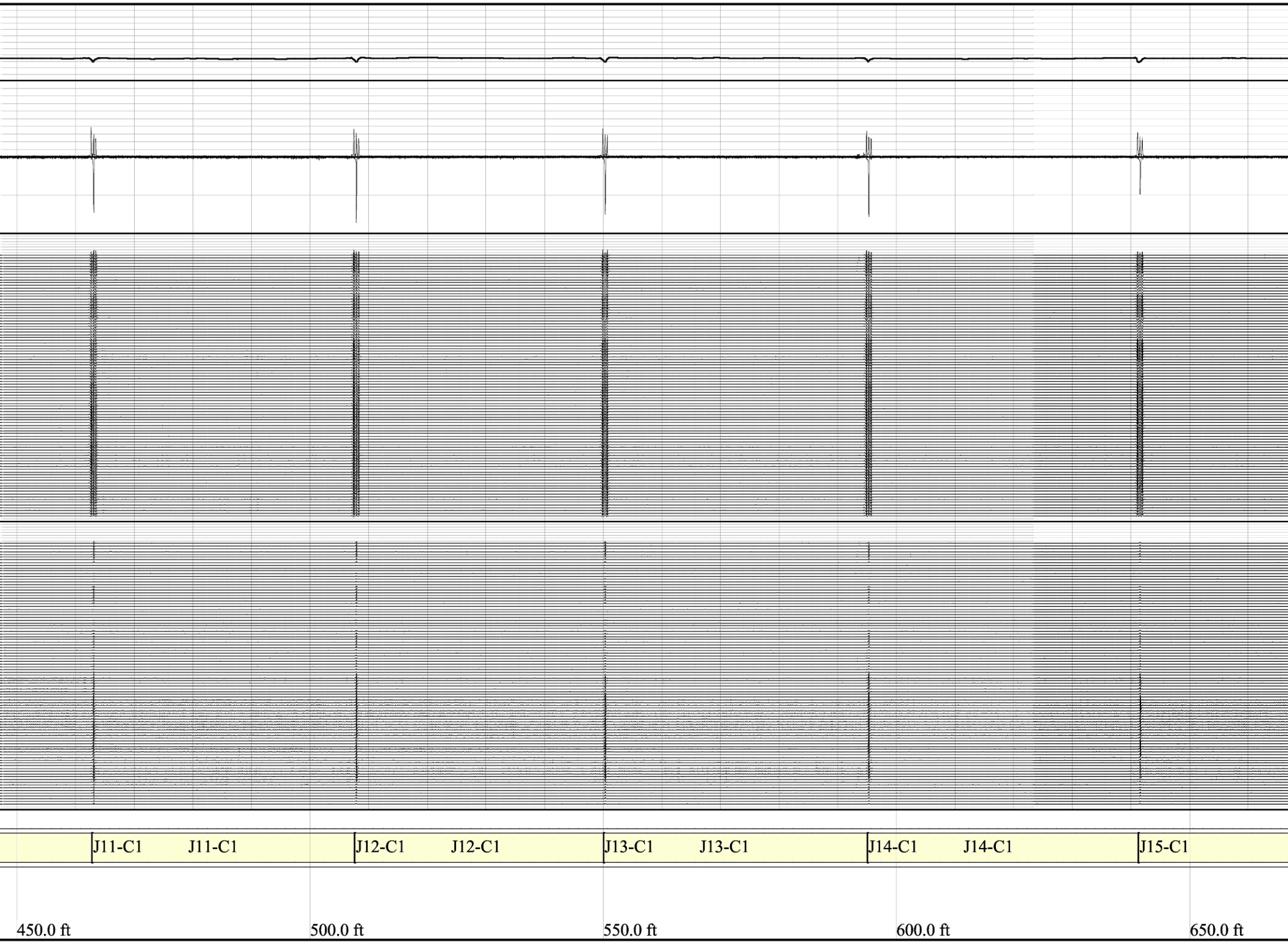
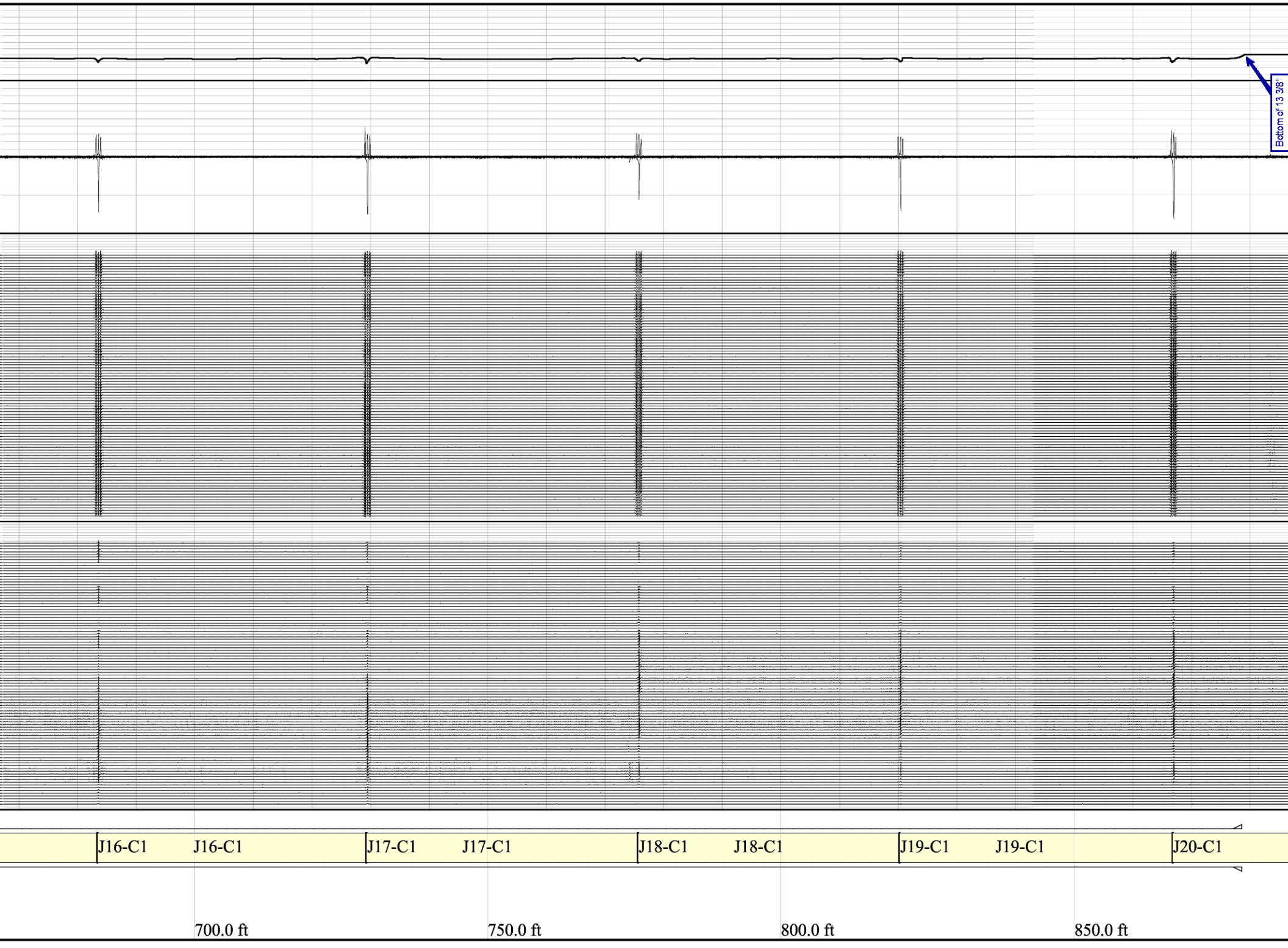
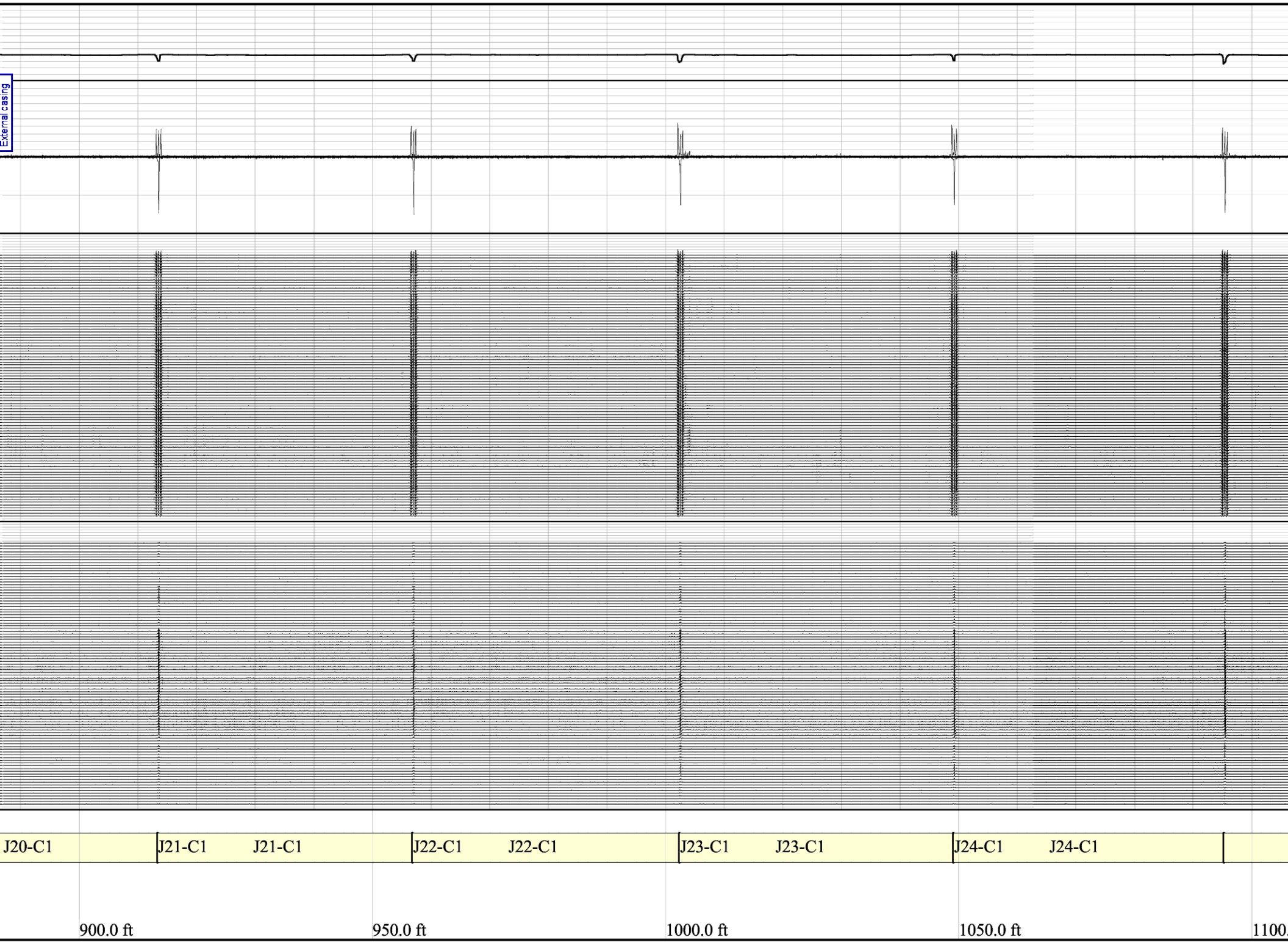
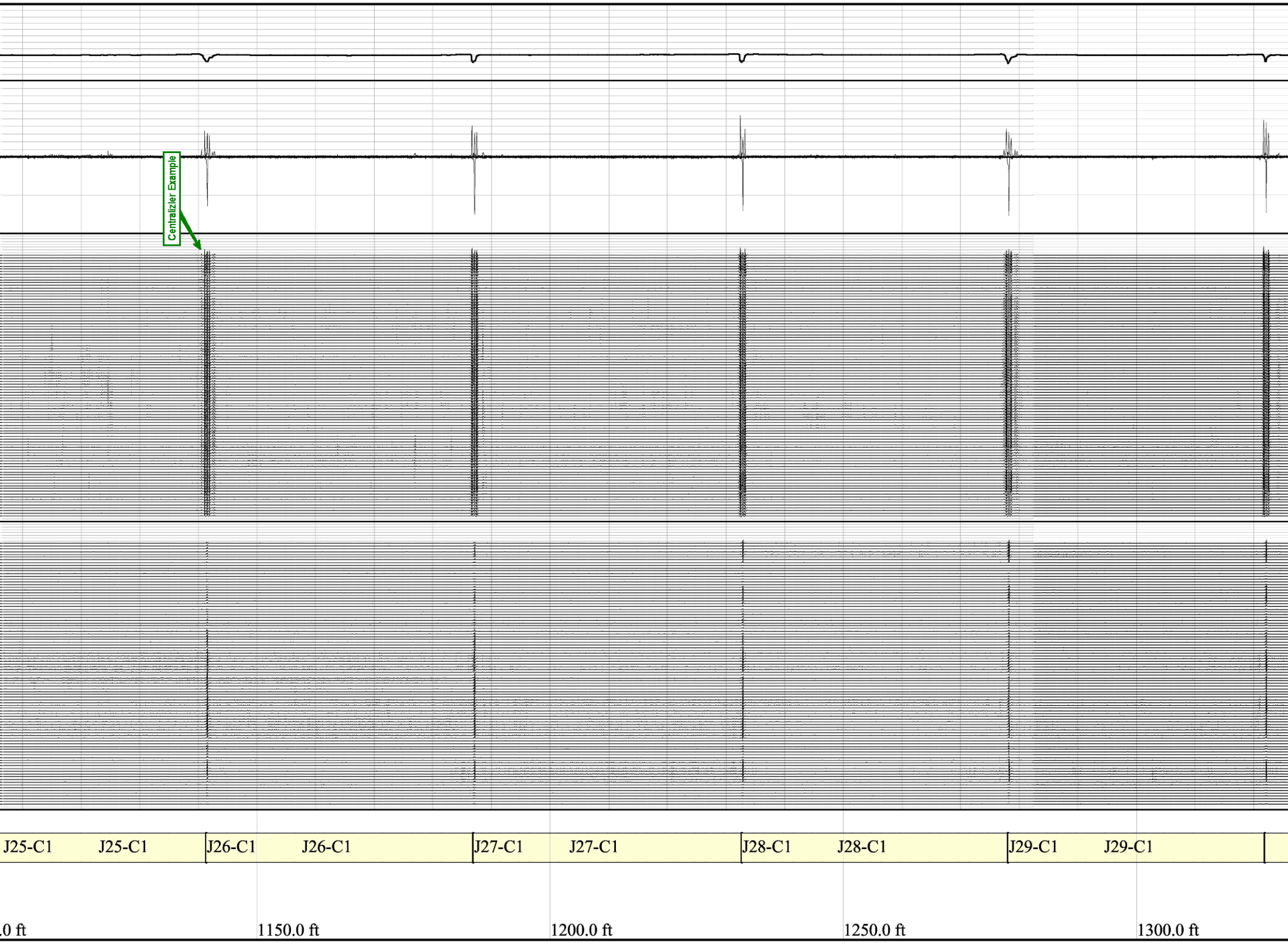
MAX
DIS
100
0
MAX
FL
Axial
0
100
Axial
Backgnd
20.0 /div
Flange
External Casing
Head Response
J2-C1
J2-C1
J3-C1
J3-C1
J4-C1
J4-C1
J5-C1
J5-C1
50.0 ft
100.0 ft
150.0 ft
200.0 ft

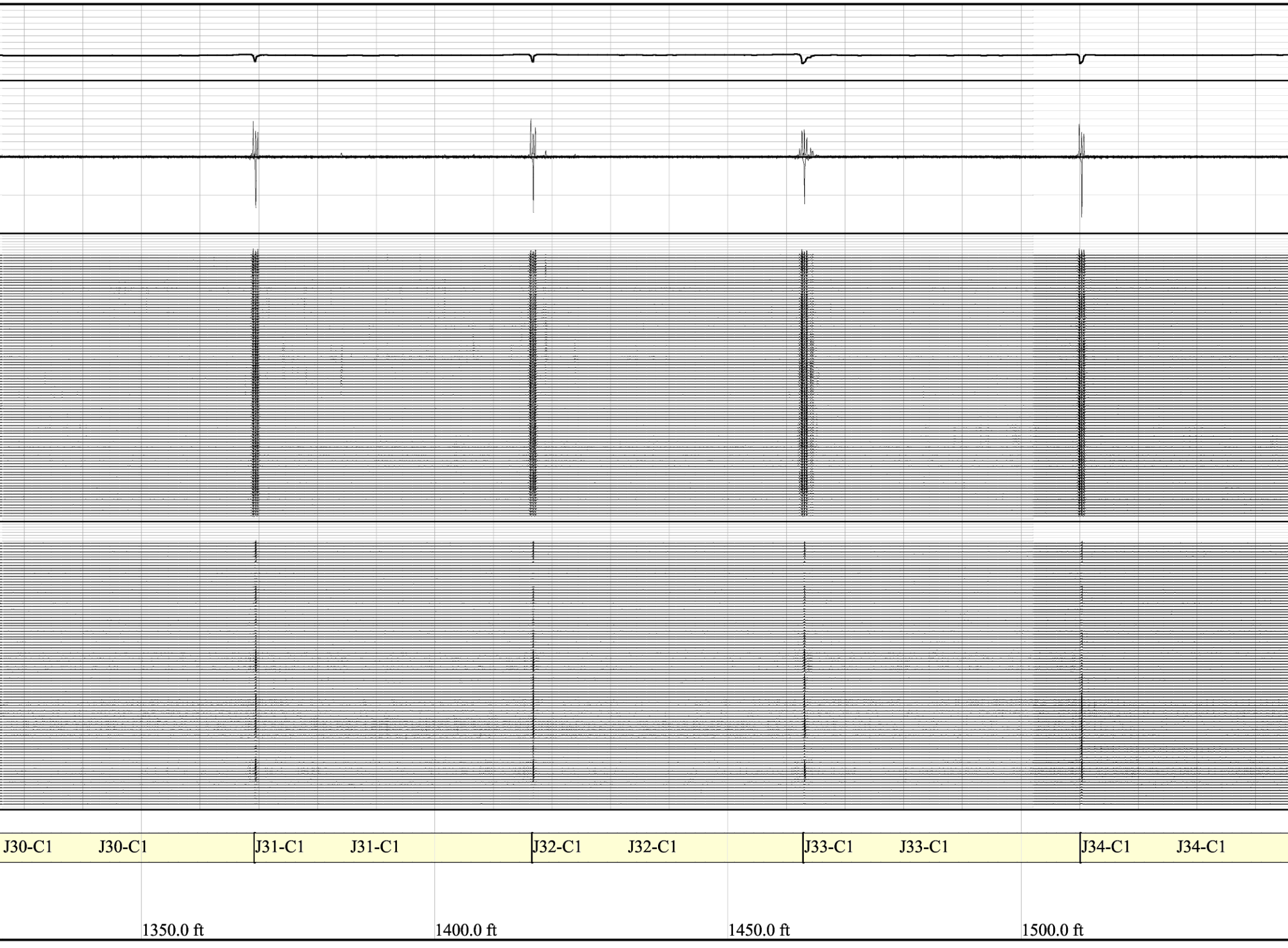

J6-C1
J6-C1
J7-C1
J7-C1
J8-C1
J8-C1
J9-C1
J9-C1
J10-C1
250.0 ft
300.0 ft
350.0 ft
400.0 ft


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


Bottom of 13 3/8"
J16-C1
J16-C1
J17-C1
J17-C1
J18-C1
J18-C1
J19-C1
J19-C1
J20-C1
700.0 ft
750.0 ft
800.0 ft
850.0 ft


External casing
J20-C1
J21-C1
J21-C1
J22-C1
J22-C1
J23-C1
J23-C1
J24-C1
J24-C1
900.0 ft
950.0 ft
1000.0 ft
1050.0 ft
1100.


Centralizer Example
J25-C1
J25-C1
J26-C1
J26-C1
J27-C1
J27-C1
J28-C1
J28-C1
J29-C1
J29-C1
.0 ft
1150.0 ft
1200.0 ft
1250.0 ft
1300.0 ft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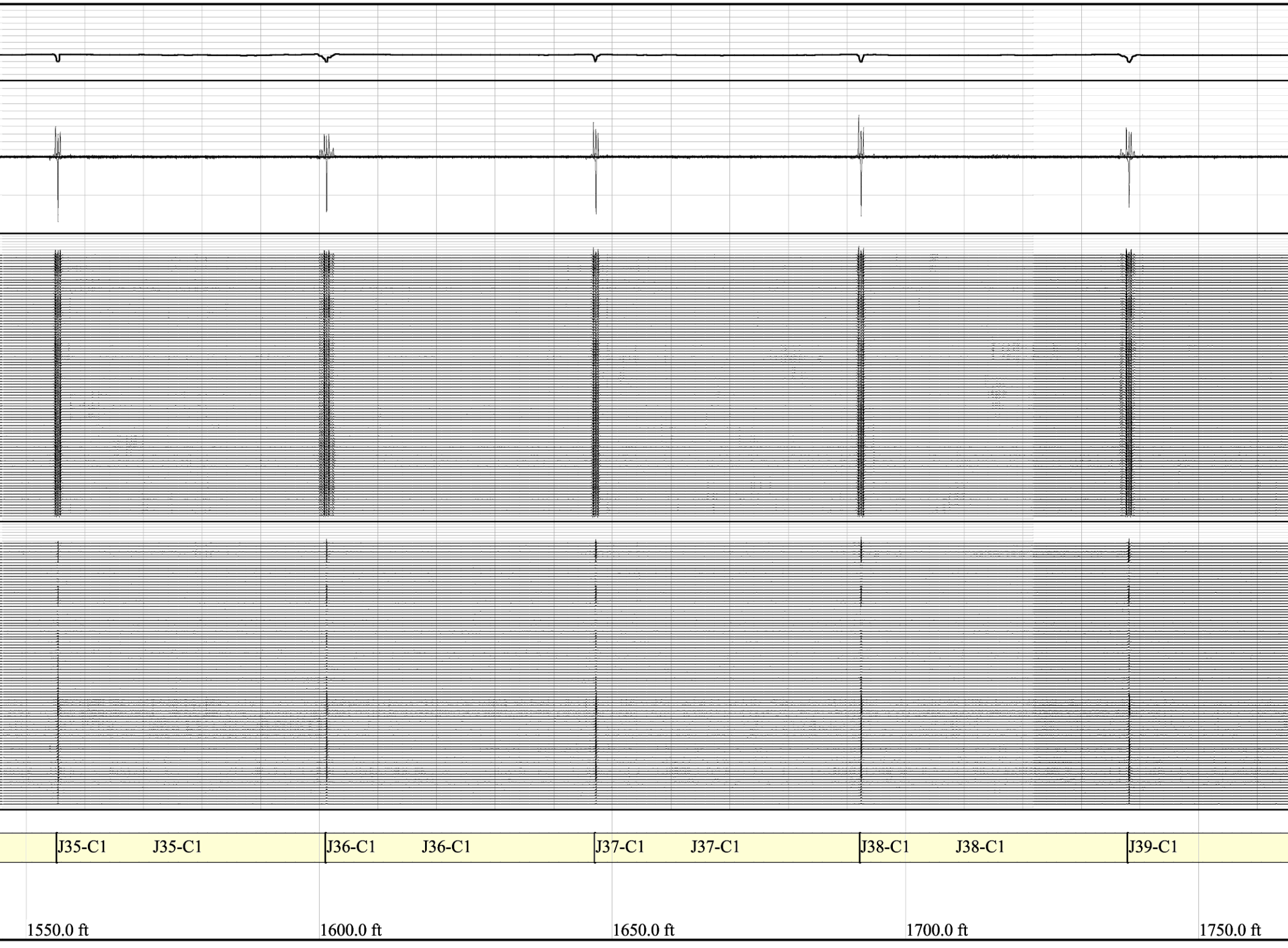
J30-C1
J31-C1
J31-C1
J32-C1
J32-C1
J33-C1
J33-C1
J34-C1
J34-C1
1350.0 ft
1400.0 ft
1450.0 ft
1500.0 ft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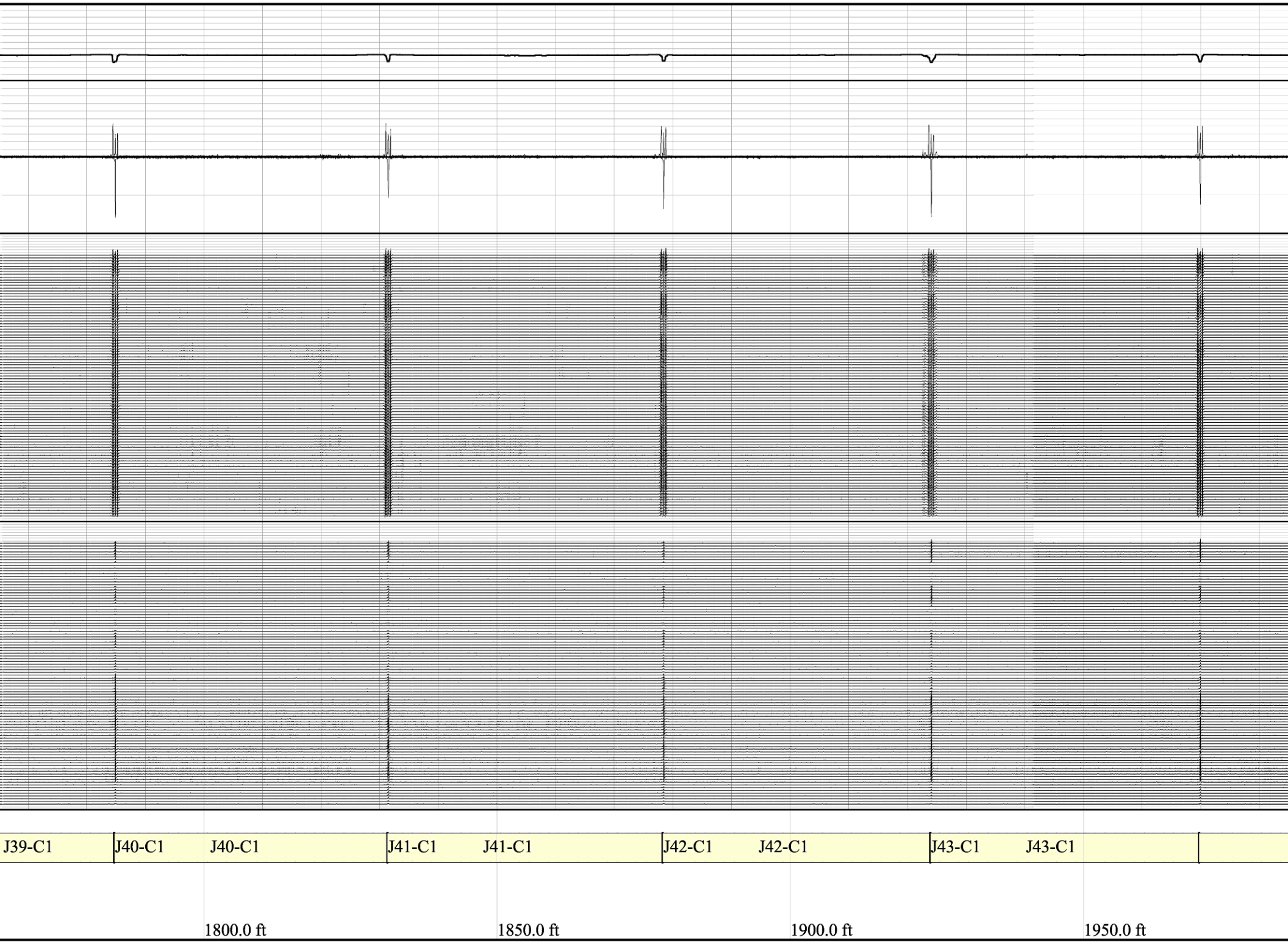
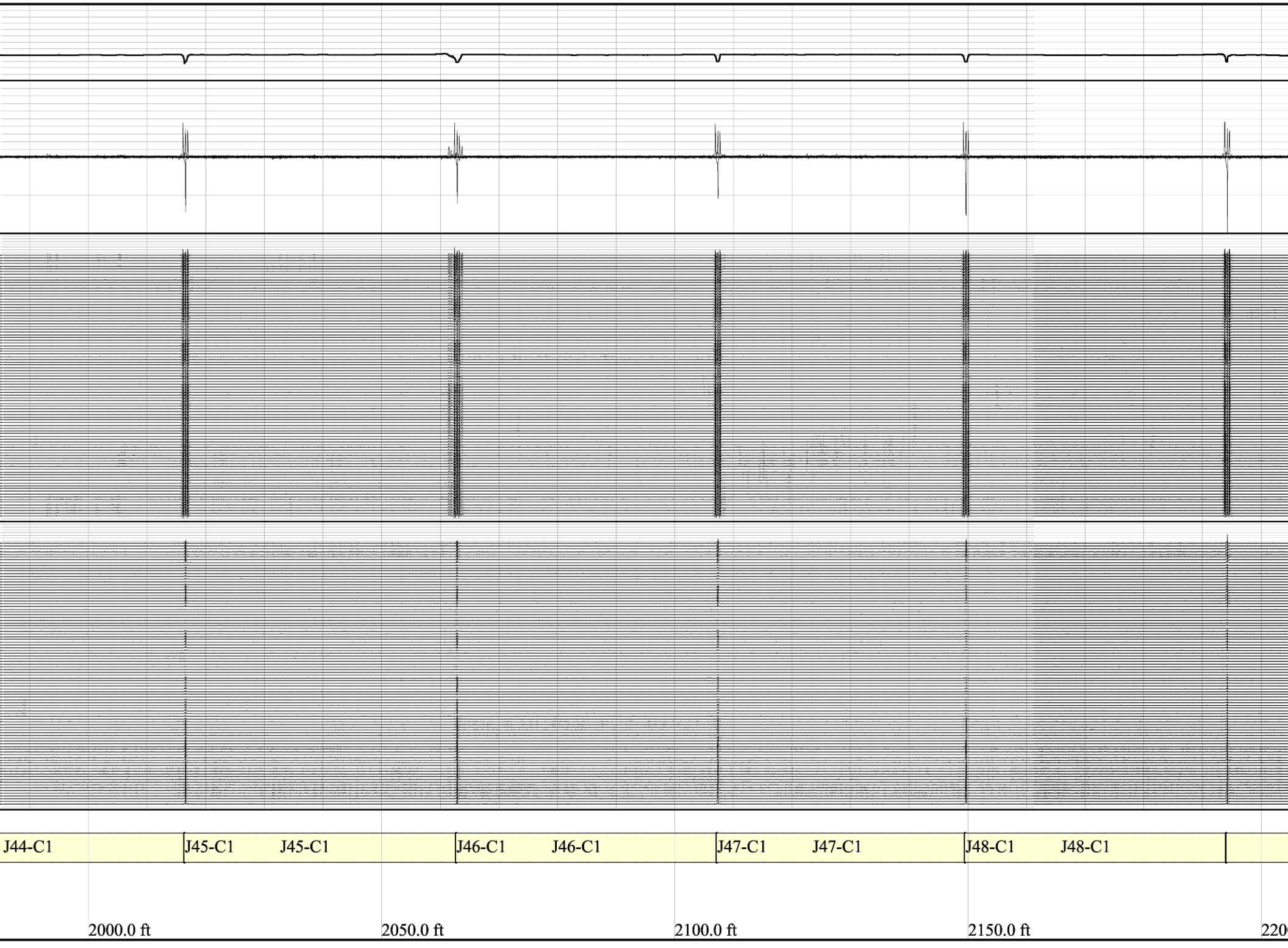
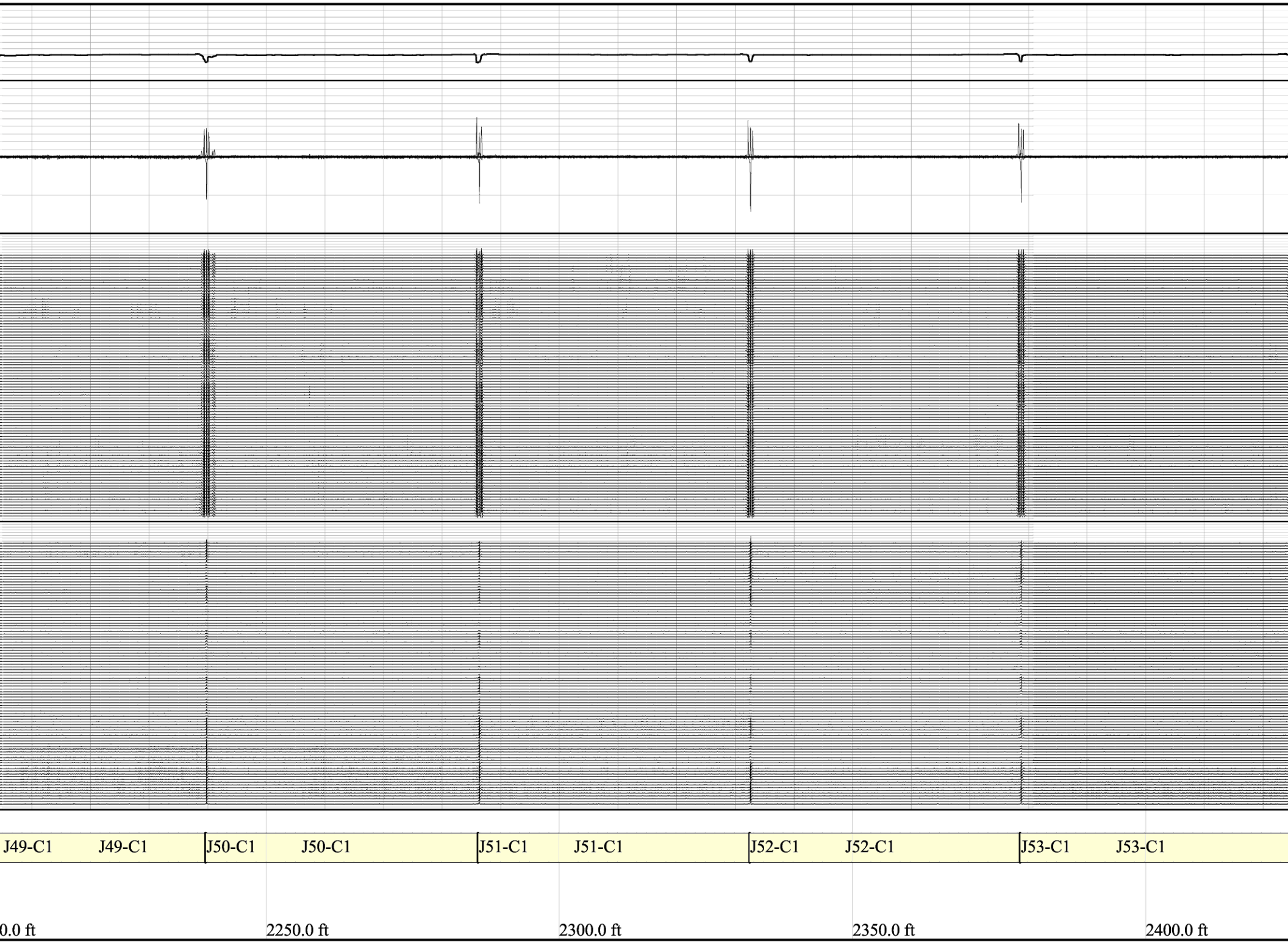
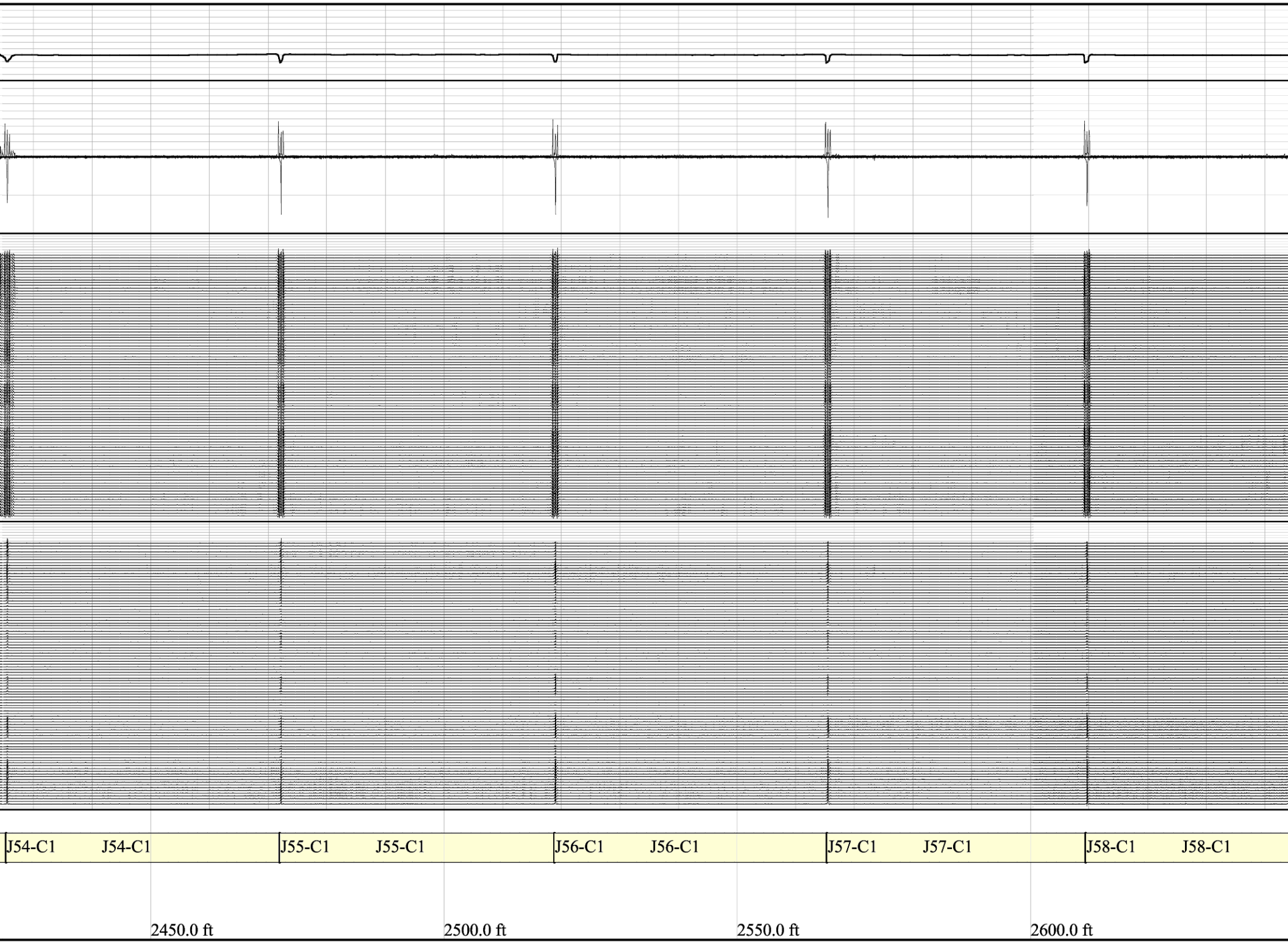
J35-C1
J36-C1
J36-C1
J37-C1
J37-C1
J38-C1
J38-C1
J39-C1
1550.0 ft
1600.0 ft
1650.0 ft
1700.0 ft
1750.0 ft


J39-C1
J40-C1
J40-C1
J41-C1
J41-C1
J42-C1
J42-C1
J43-C1
J43-C1
1800.0 ft
1850.0 ft
1900.0 ft
1950.0 ft


J44-C1
J45-C1
J45-C1
J46-C1
J46-C1
J47-C1
J47-C1
J48-C1
J48-C1
2000.0 ft
2050.0 ft
2100.0 ft
2150.0 ft


J49-C1
J49-C1
J50-C1
J50-C1
J51-C1
J51-C1
J52-C1
J52-C1
J53-C1
J53-C1
0.0 ft
2250.0 ft
2300.0 ft
2350.0 ft
2400.0 ft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J54-C1
J55-C1
J55-C1
J56-C1
J56-C1
J57-C1
J57-C1
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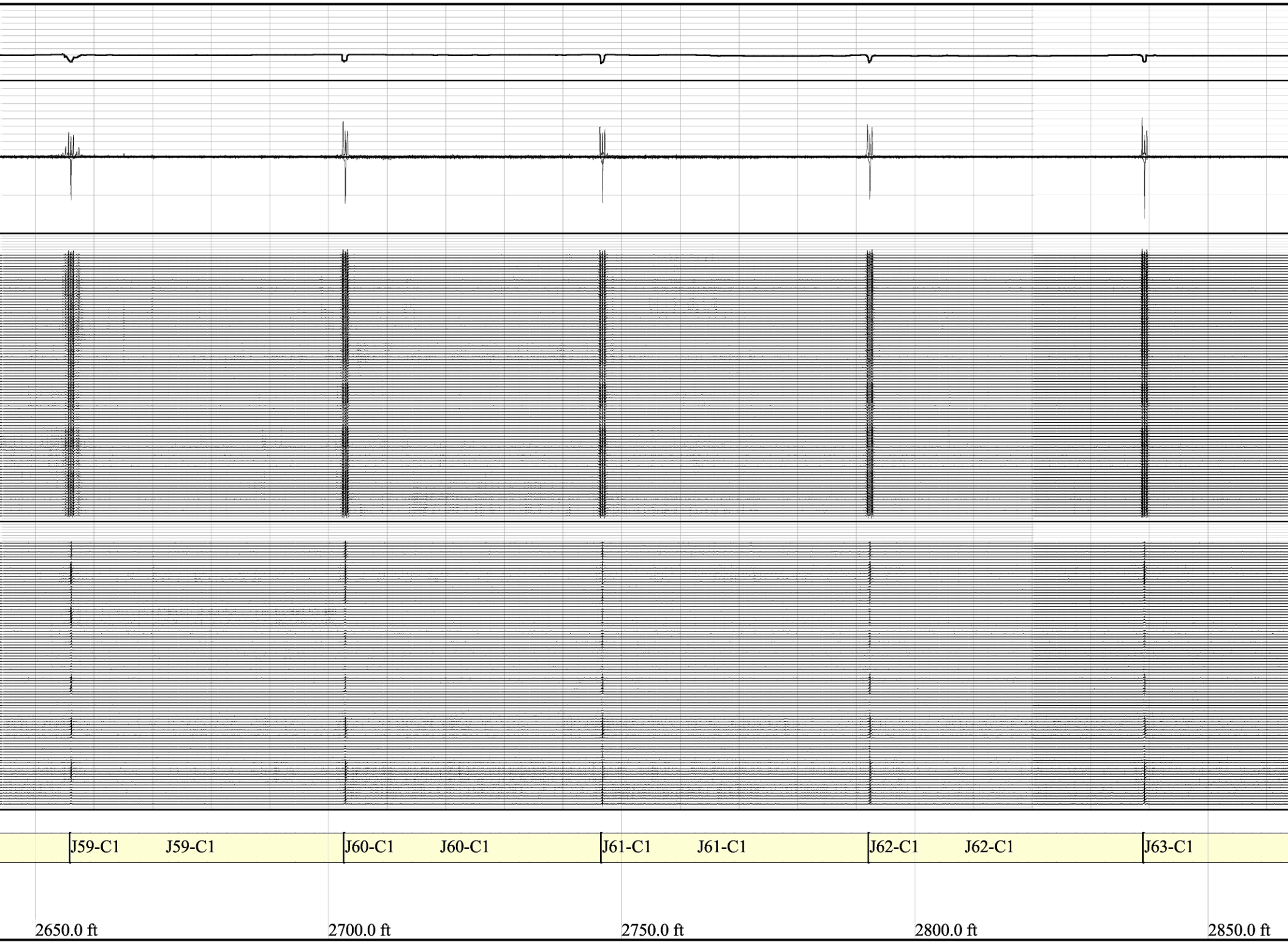
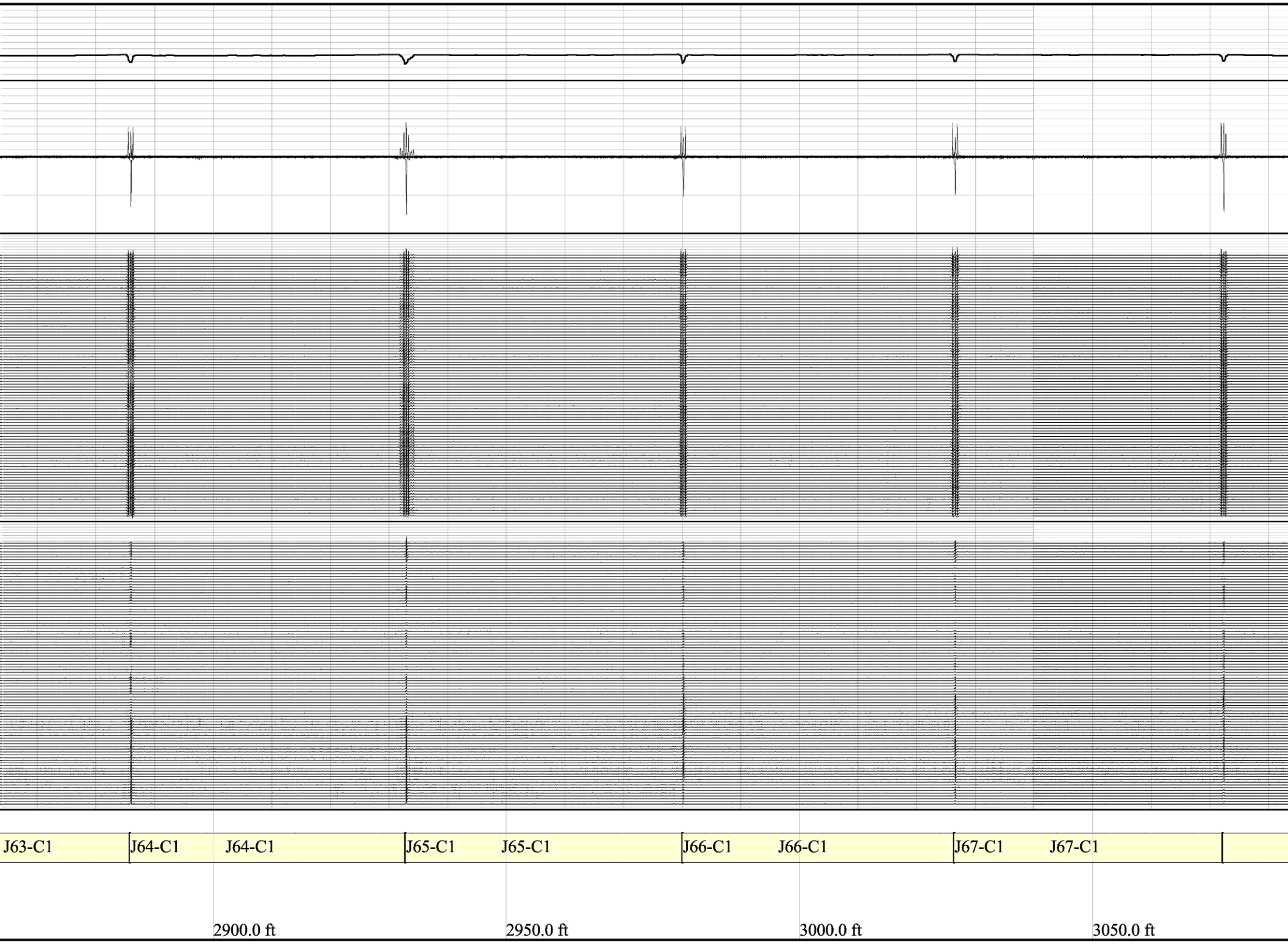
2500.0 ft
2550.0 ft
2600.0 ft


J59-C1
J59-C1
J60-C1
J60-C1
J61-C1
J61-C1
J62-C1
J62-C1
J63-C1
2650.0 ft
2700.0 ft
2750.0 ft
2800.0 ft
2850.0 ft


J63-C1
J64-C1
J64-C1
J65-C1
J65-C1
J66-C1
J66-C1
J67-C1
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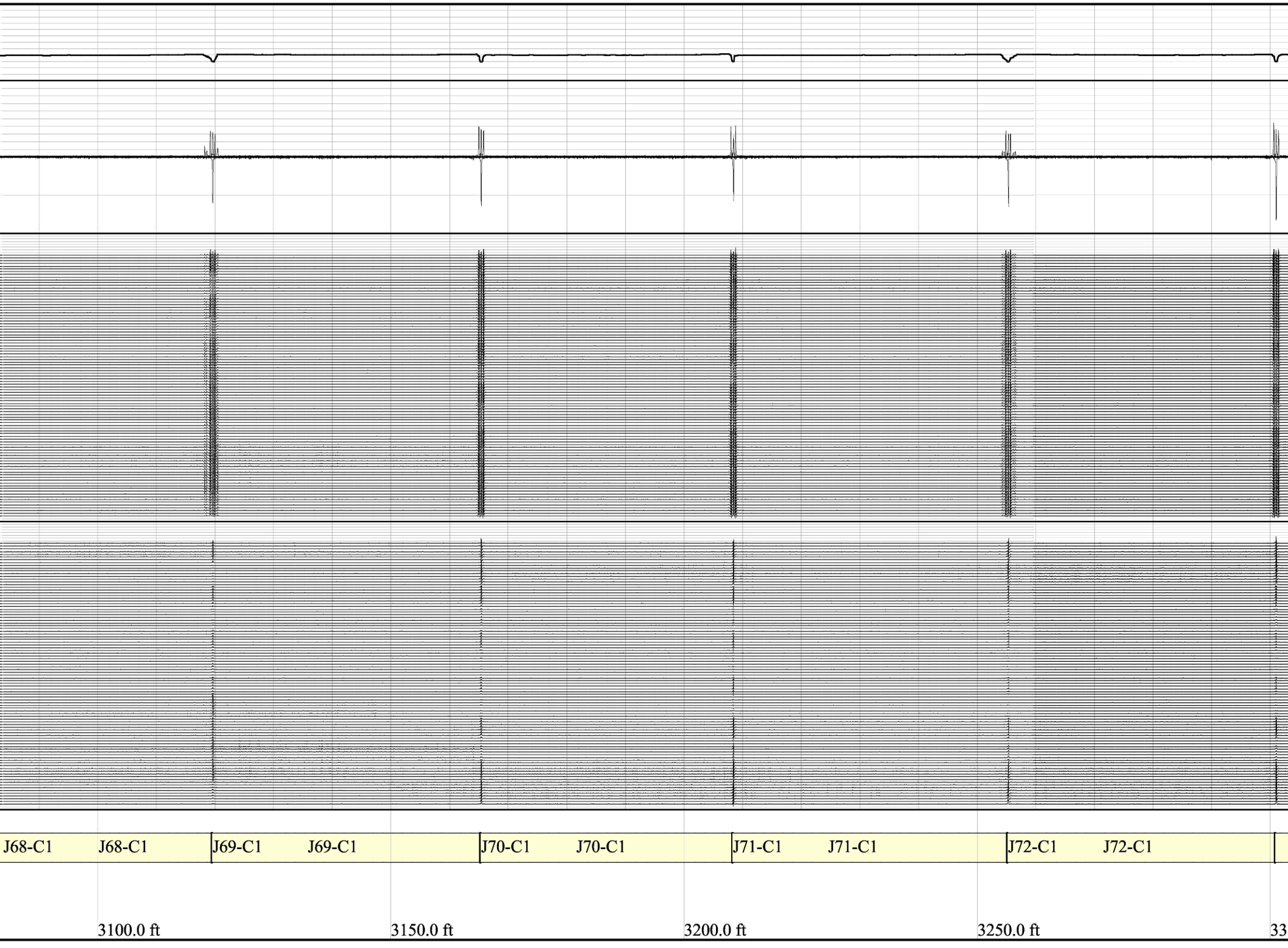
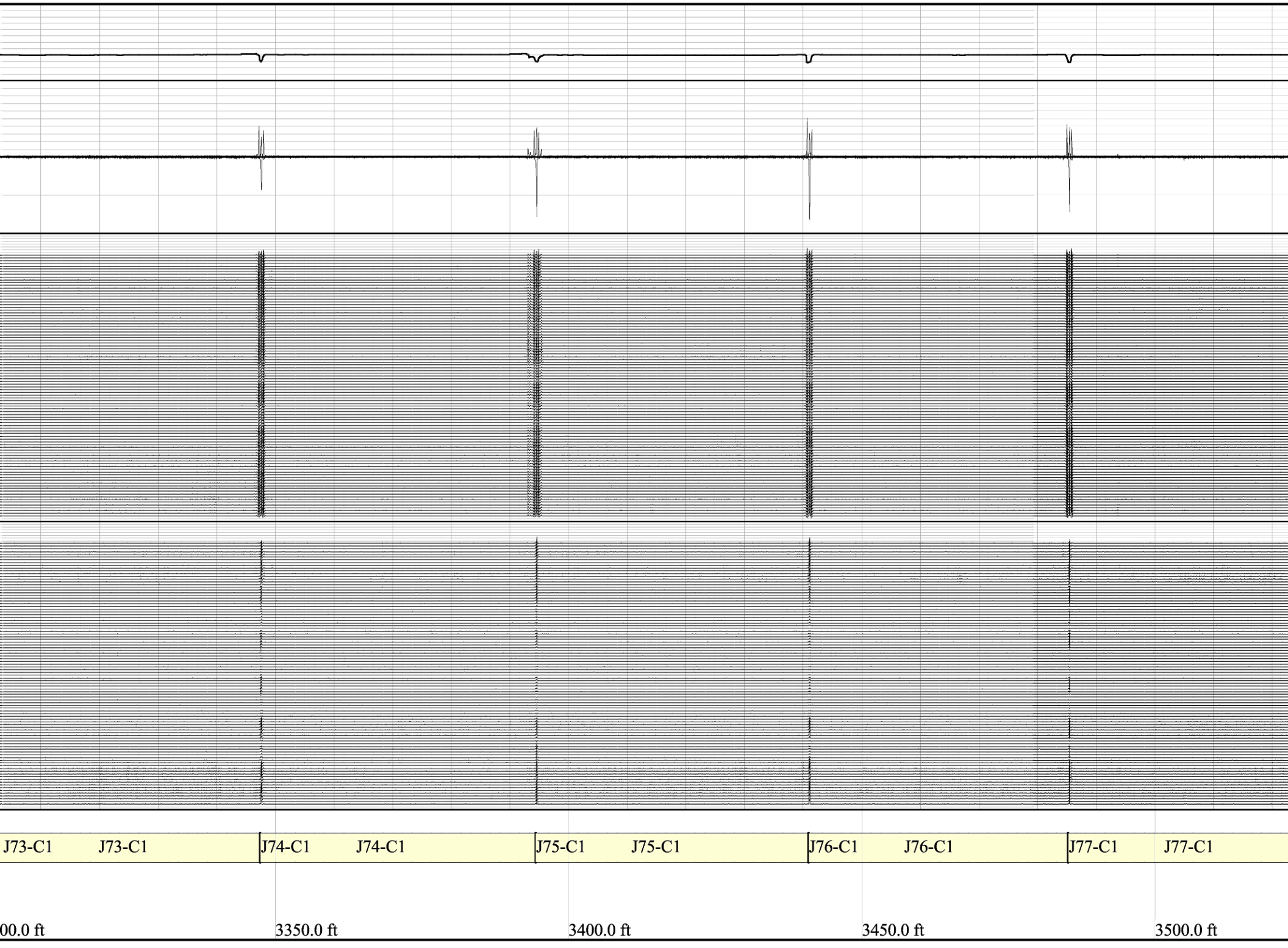
2950.0 ft
3000.0 ft
3050.0 ft


J68-C1
J68-C1
J69-C1
J69-C1
J70-C1
J70-C1
J71-C1
J71-C1
J72-C1
J72-C1
3100.0 ft
3150.0 ft
3200.0 ft
3250.0 ft
33


J73-C1
J73-C1
J74-C1
J74-C1
J75-C1
J75-C1
J76-C1
J76-C1
J77-C1
J77-C1
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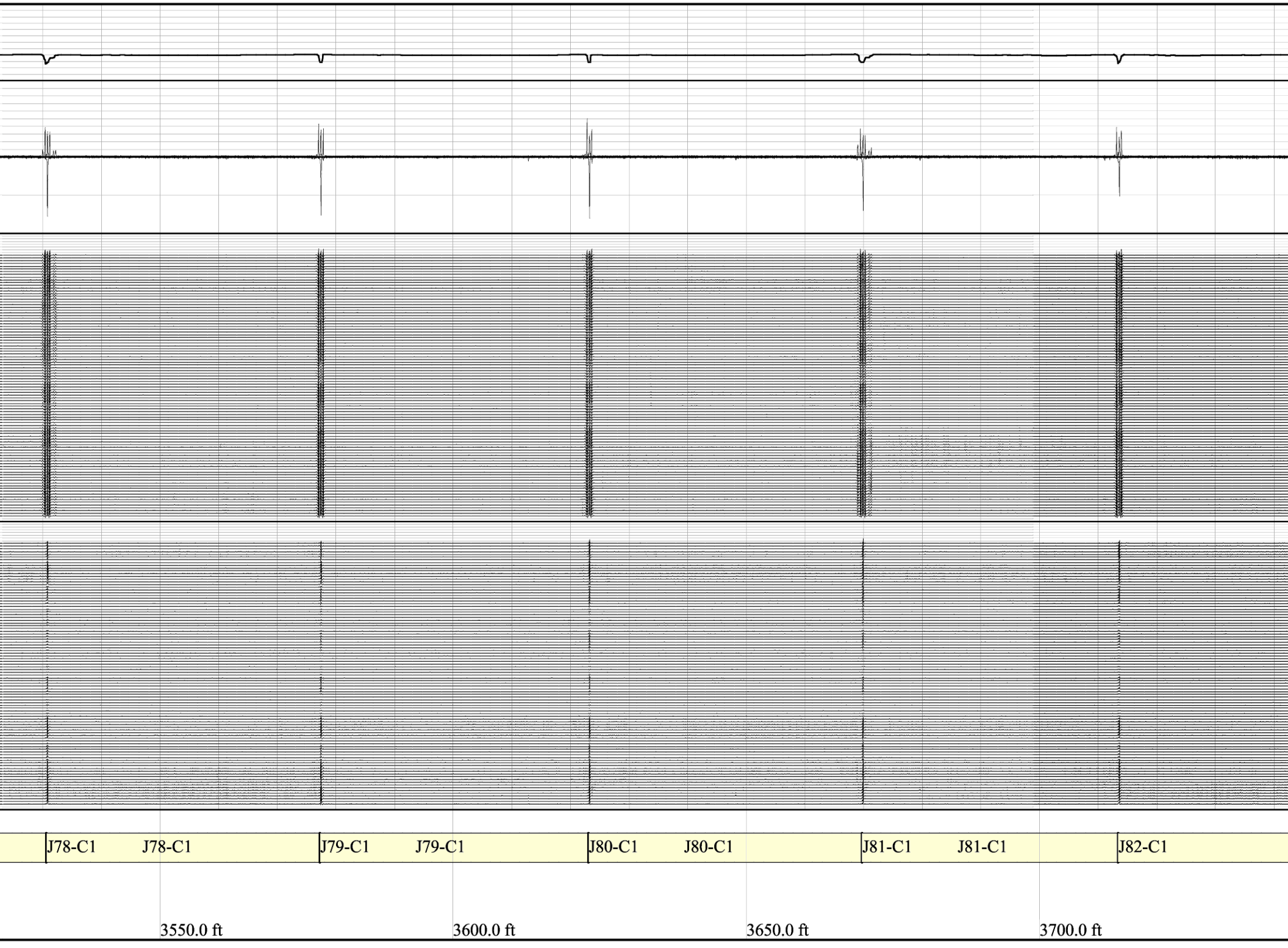
3450.0 ft
3500.0 ft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J78-C1
J79-C1
J79-C1
J80-C1
J80-C1
J81-C1
J81-C1
J82-C1
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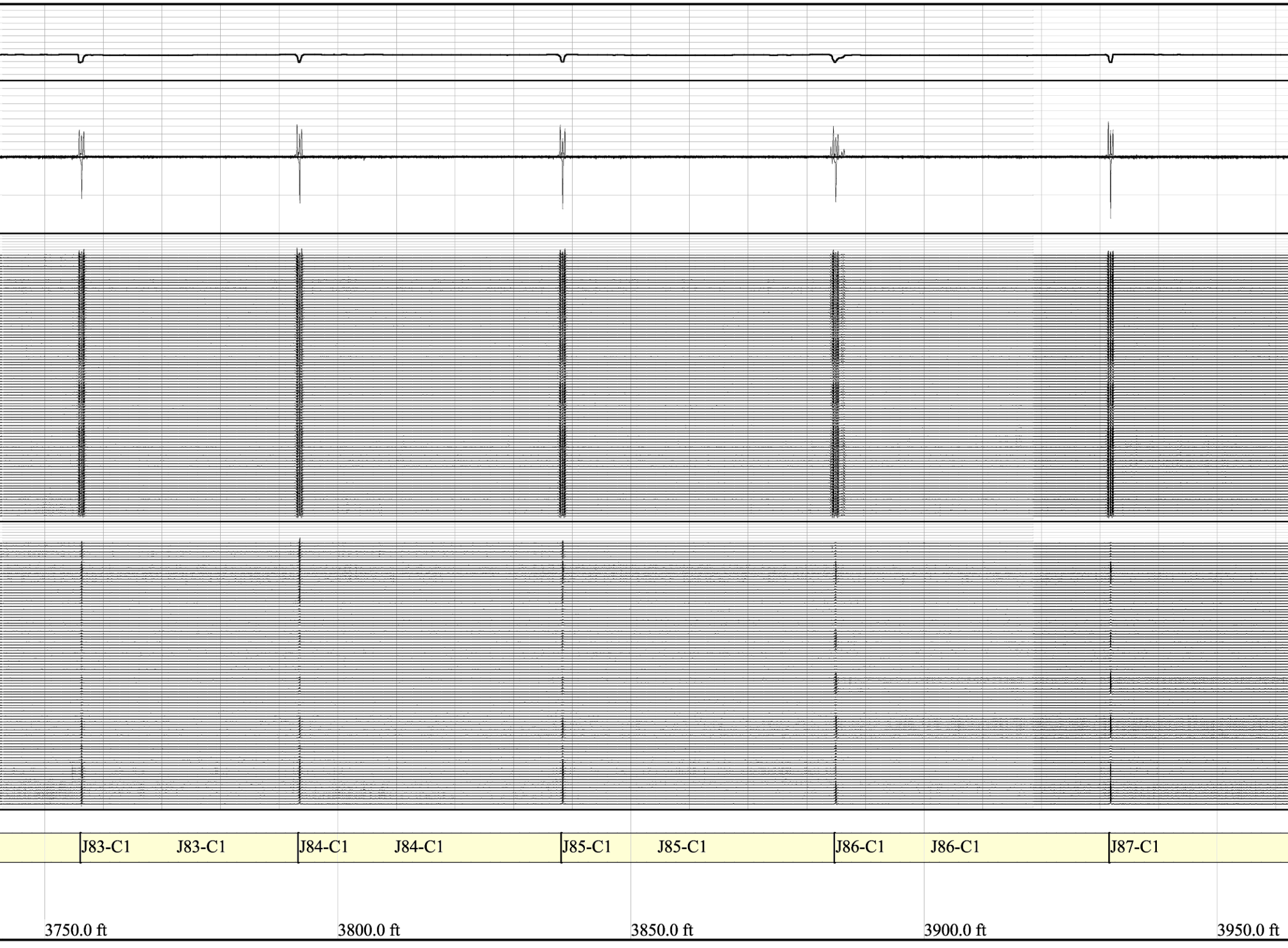
3600.0 ft
3650.0 ft
3700.0 ft


J83-C1
J83-C1
J84-C1
J84-C1
J85-C1
J85-C1
J86-C1
J86-C1
J87-C1
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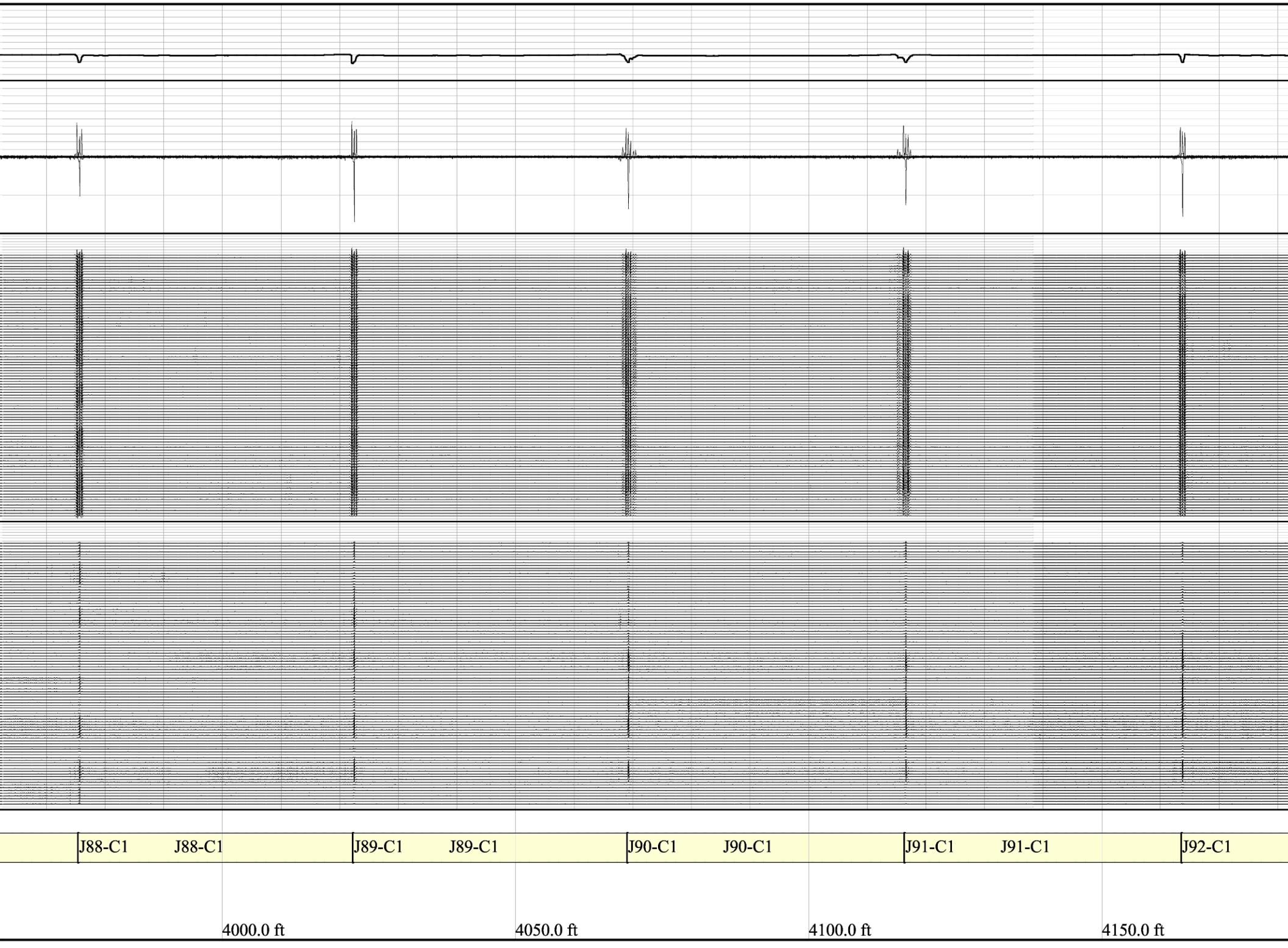
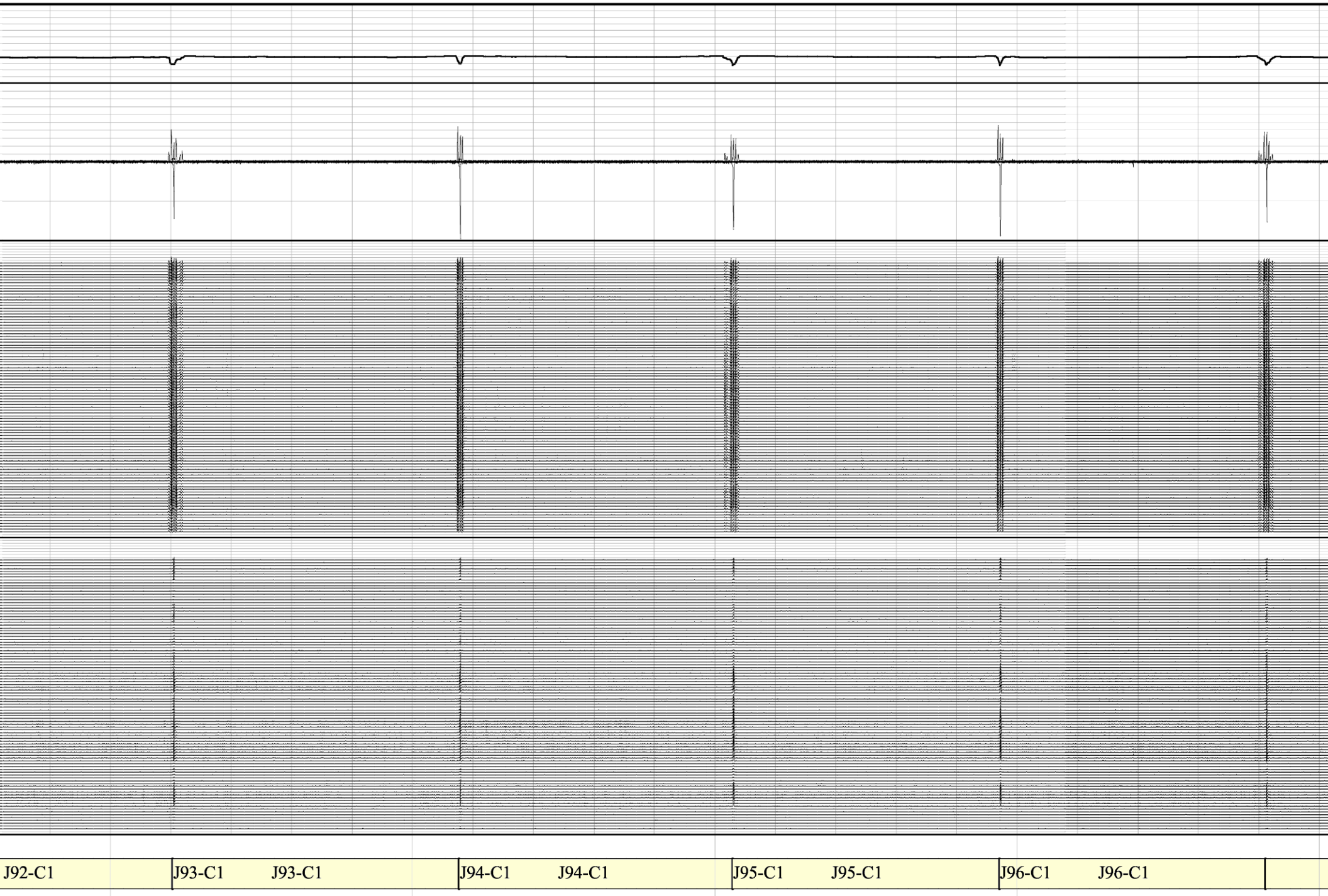
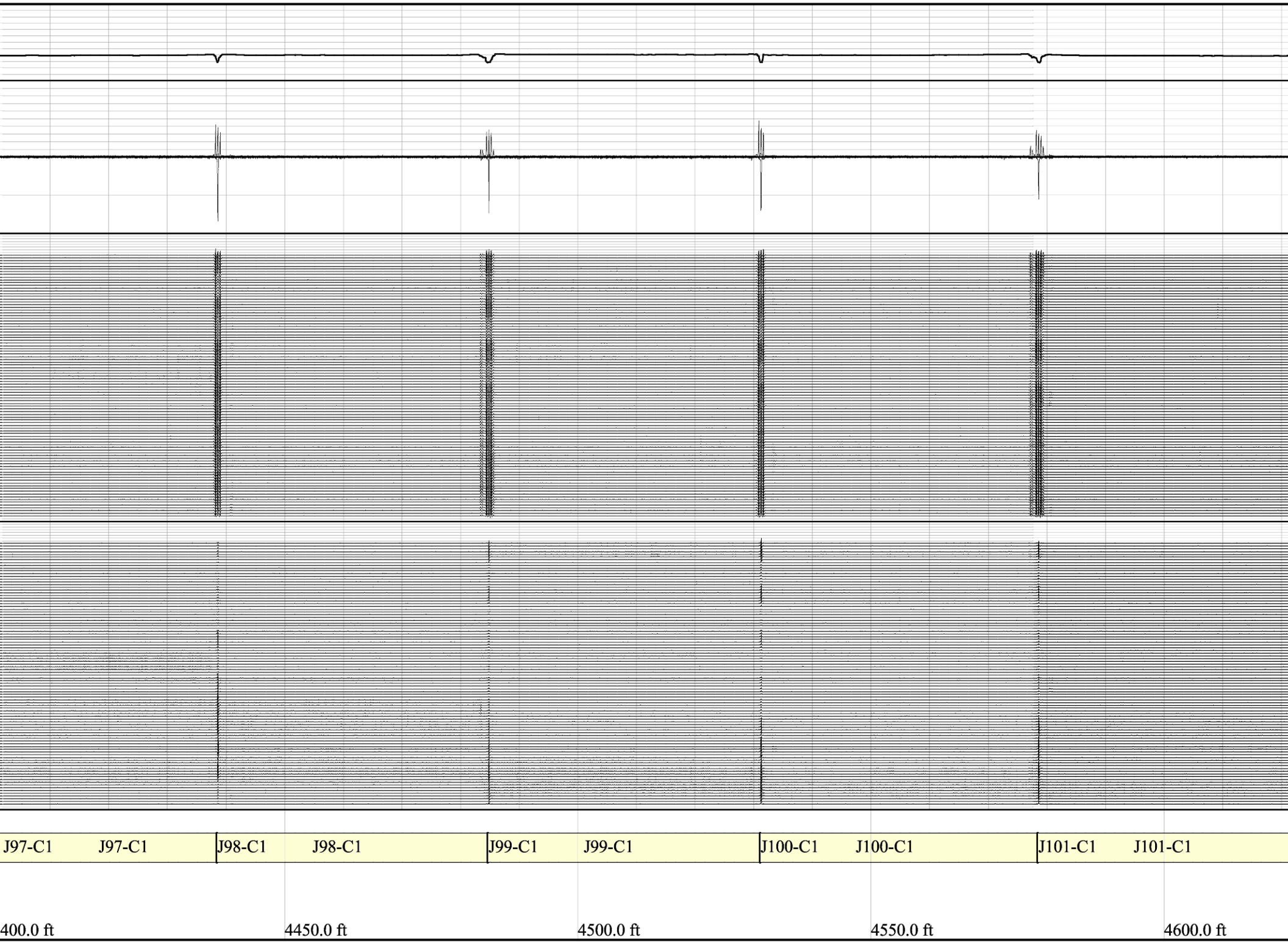
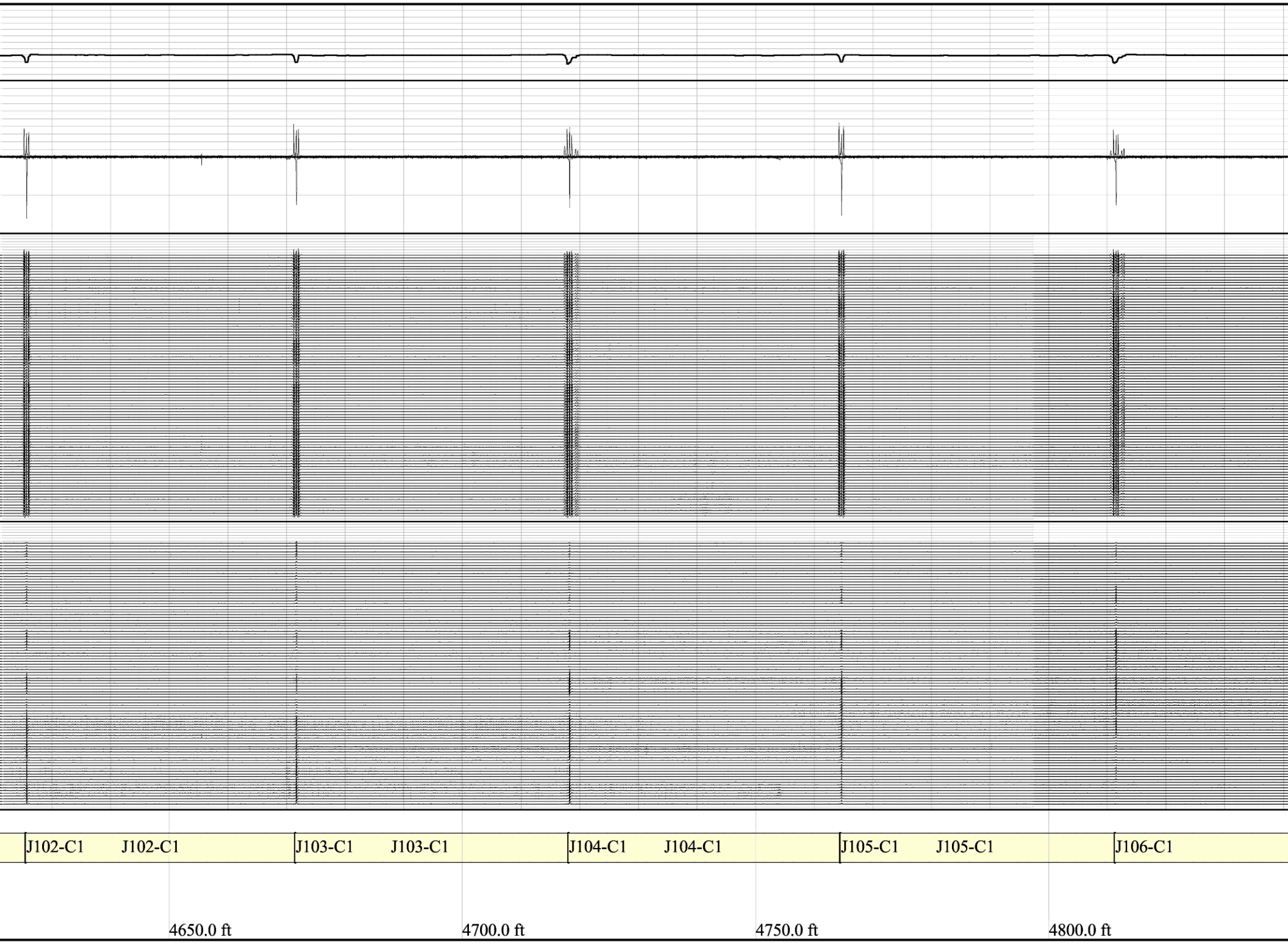
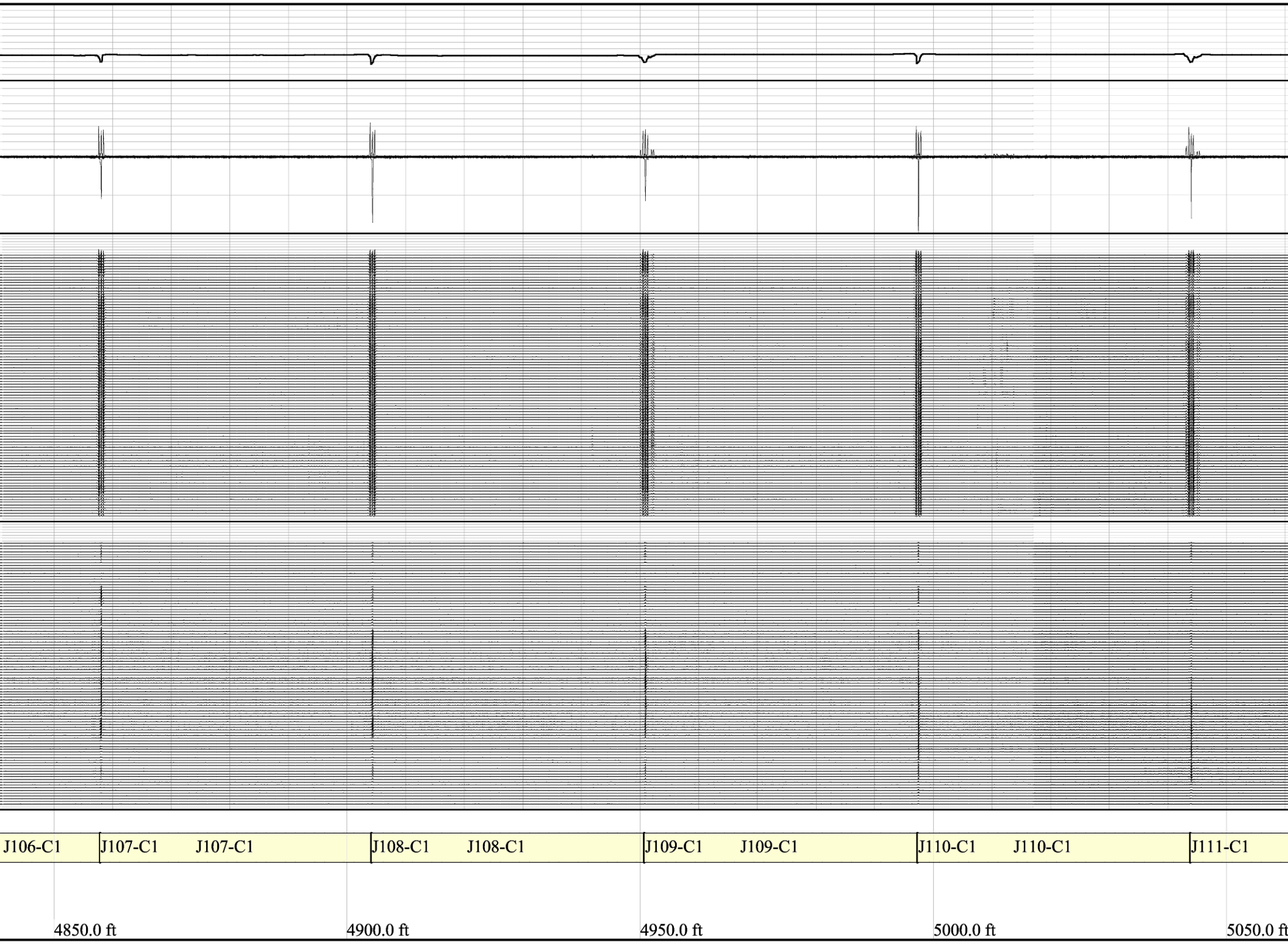
3850.0 ft
3900.0 ft
3950.0 ft

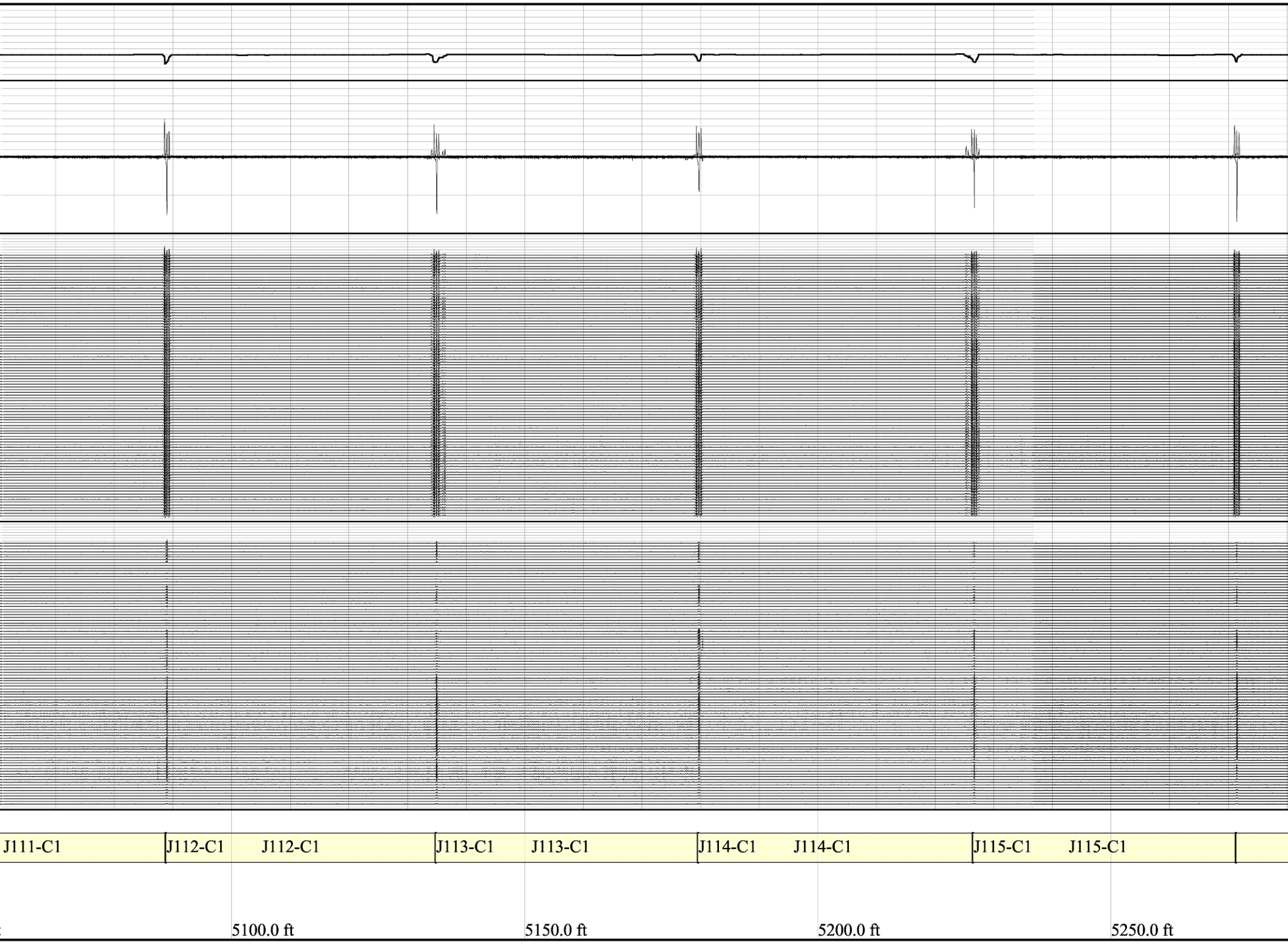

J88-C1
J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
J91-C1
J91-C1
J92-C1
4000.0 ft
4050.0 ft
4100.0 ft
4150.0 ft

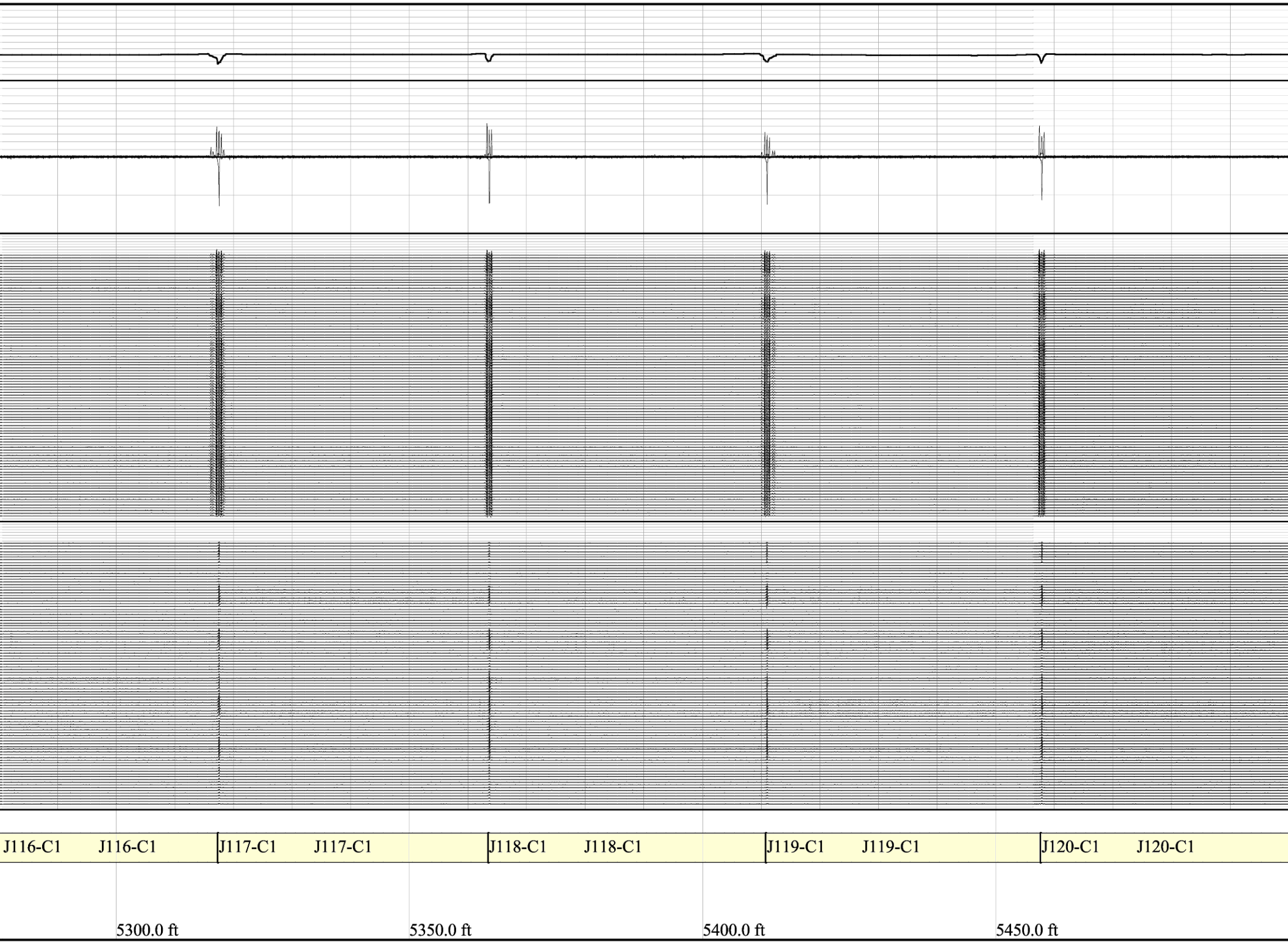

J92-C1
J93-C1
J93-C1
J94-C1
J94-C1
J95-C1
J95-C1
J96-C1
J96-C1
4200.0 ft
4250.0 ft
4300.0 ft
4350.0 ft

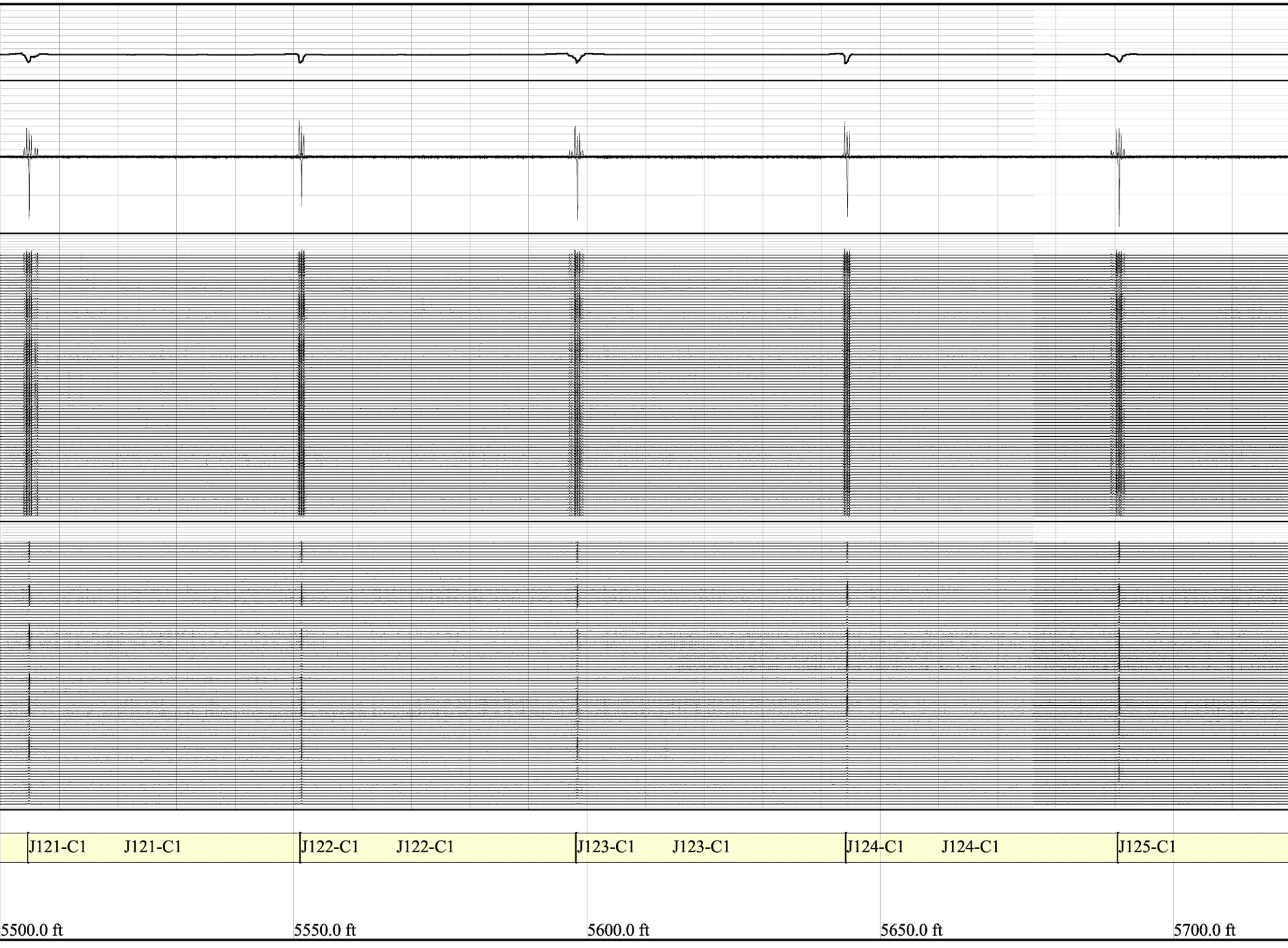

J97-C1
J97-C1
J98-C1
J98-C1
J99-C1
J99-C1
J100-C1
J100-C1
J101-C1
J101-C1
400.0 ft
4450.0 ft
4500.0 ft
4550.0 ft
4600.0 ft

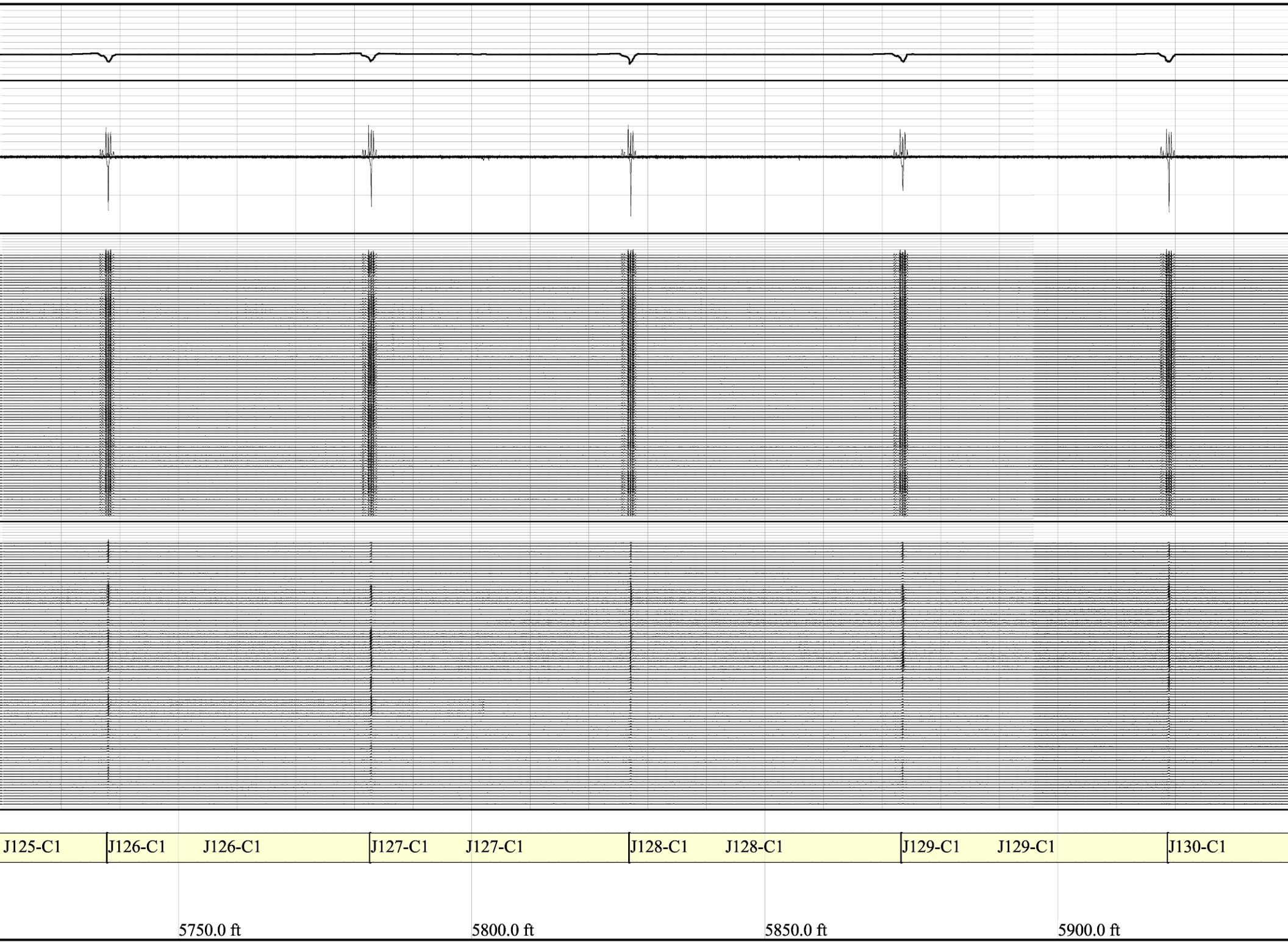

J102-C1
J102-C1
J103-C1
J103-C1
J104-C1
J104-C1
J105-C1
J105-C1
J106-C1
4650.0 ft
4700.0 ft
4750.0 ft
4800.0 ft


J106-C1
J107-C1
J107-C1
J108-C1
J108-C1
J109-C1
J109-C1
J110-C1
J110-C1
J111-C1
4850.0 ft
4900.0 ft
4950.0 ft
5000.0 ft
5050.0 ft


J111-C1
J112-C1
J112-C1
J113-C1
J113-C1
J114-C1
J114-C1
J115-C1
J115-C1
5100.0 ft
5150.0 ft
5200.0 ft
5250.0 ft


J116-C1
J116-C1
J117-C1
J117-C1
J118-C1
J118-C1
J119-C1
J119-C1
J120-C1
J120-C1
5300.0 ft
5350.0 ft
5400.0 ft
5450.0 ft


J121-C1
J121-C1
J122-C1
J122-C1
J123-C1
J123-C1
J124-C1
J124-C1
J125-C1
5500.0 ft
5550.0 ft
5600.0 ft
5650.0 ft
5700.0 ft


J125-C1
J126-C1
J126-C1
J127-C1
J127-C1
J128-C1
J128-C1
J129-C1
J129-C1
J130-C1
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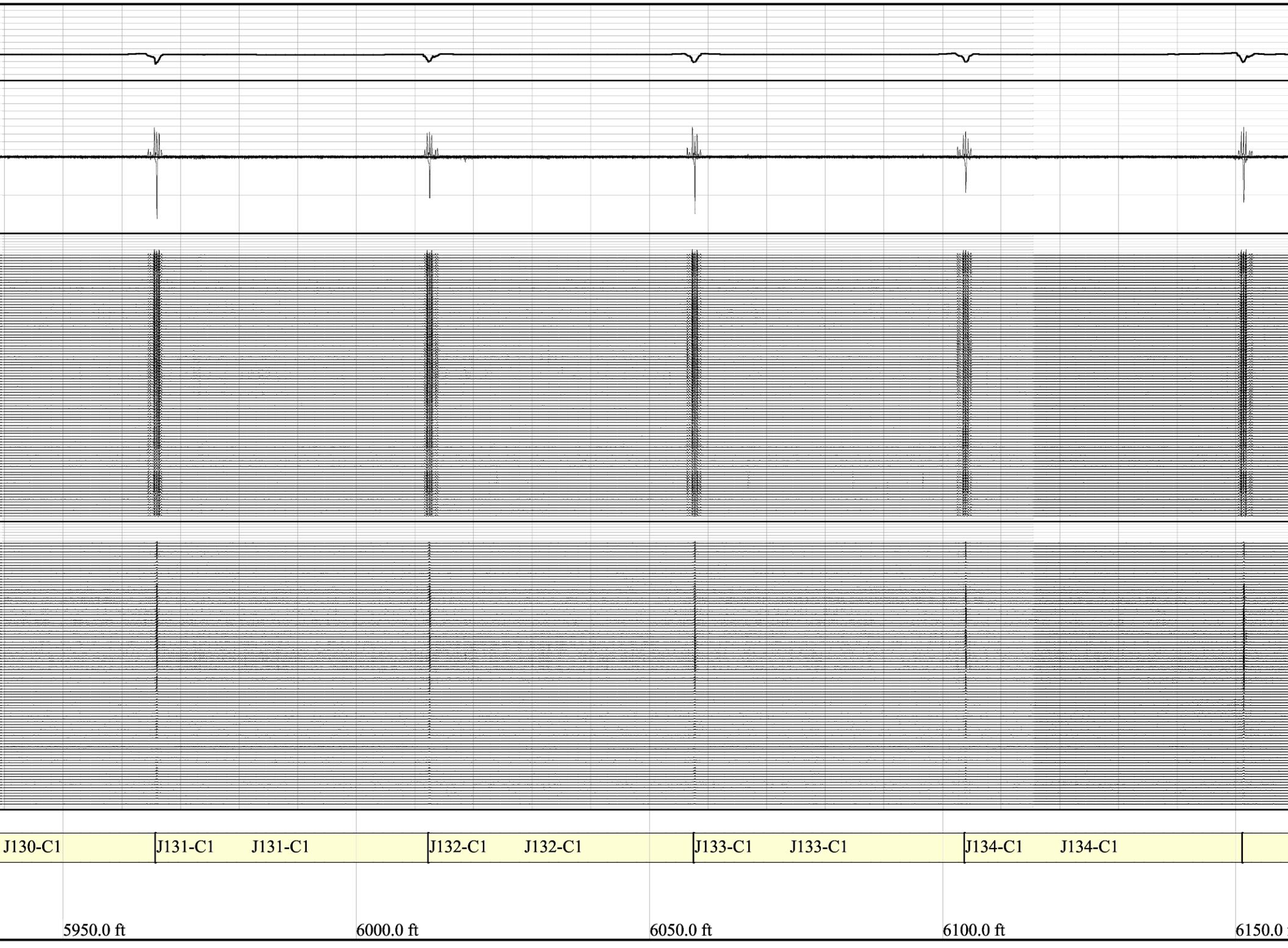
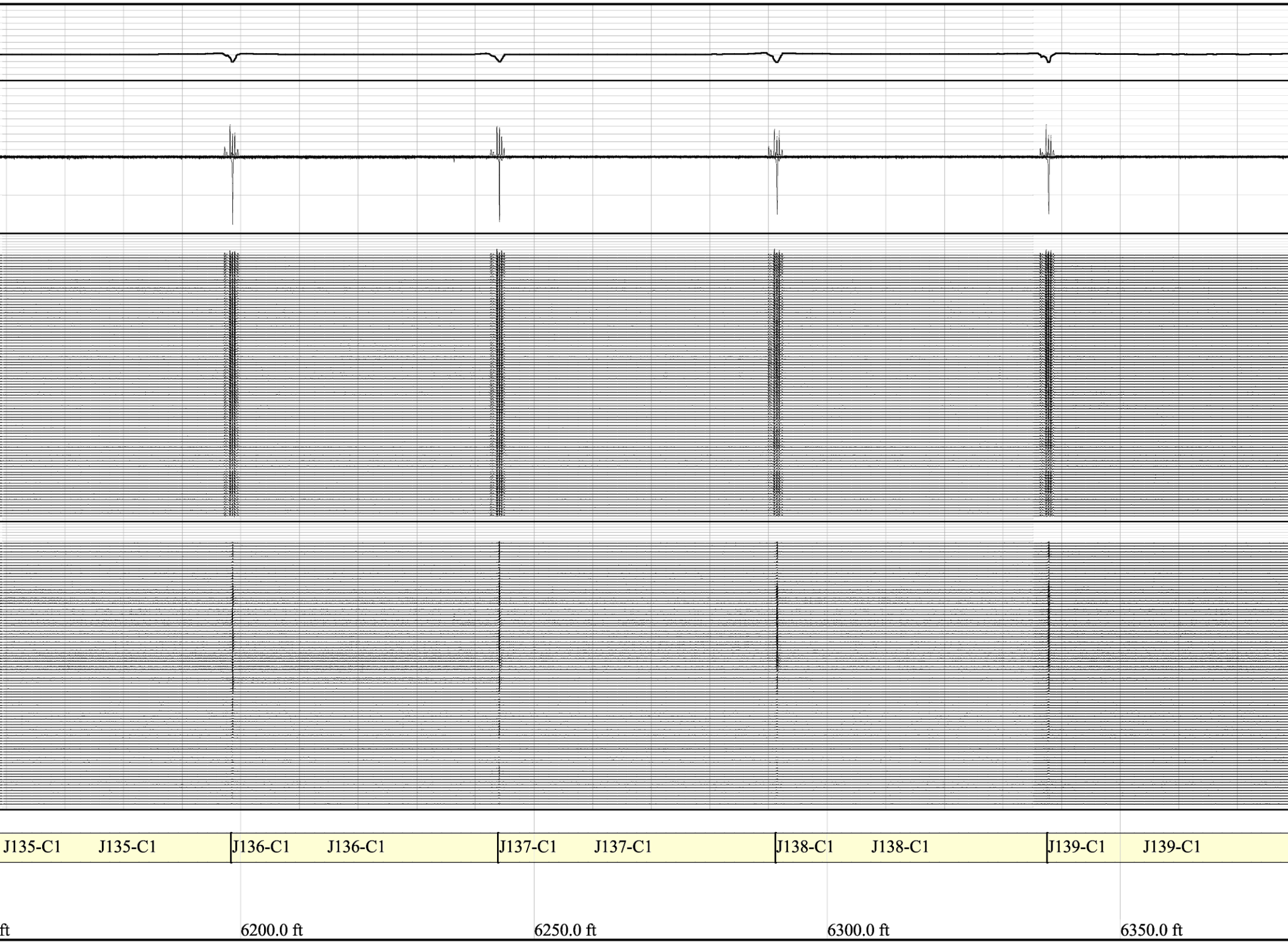
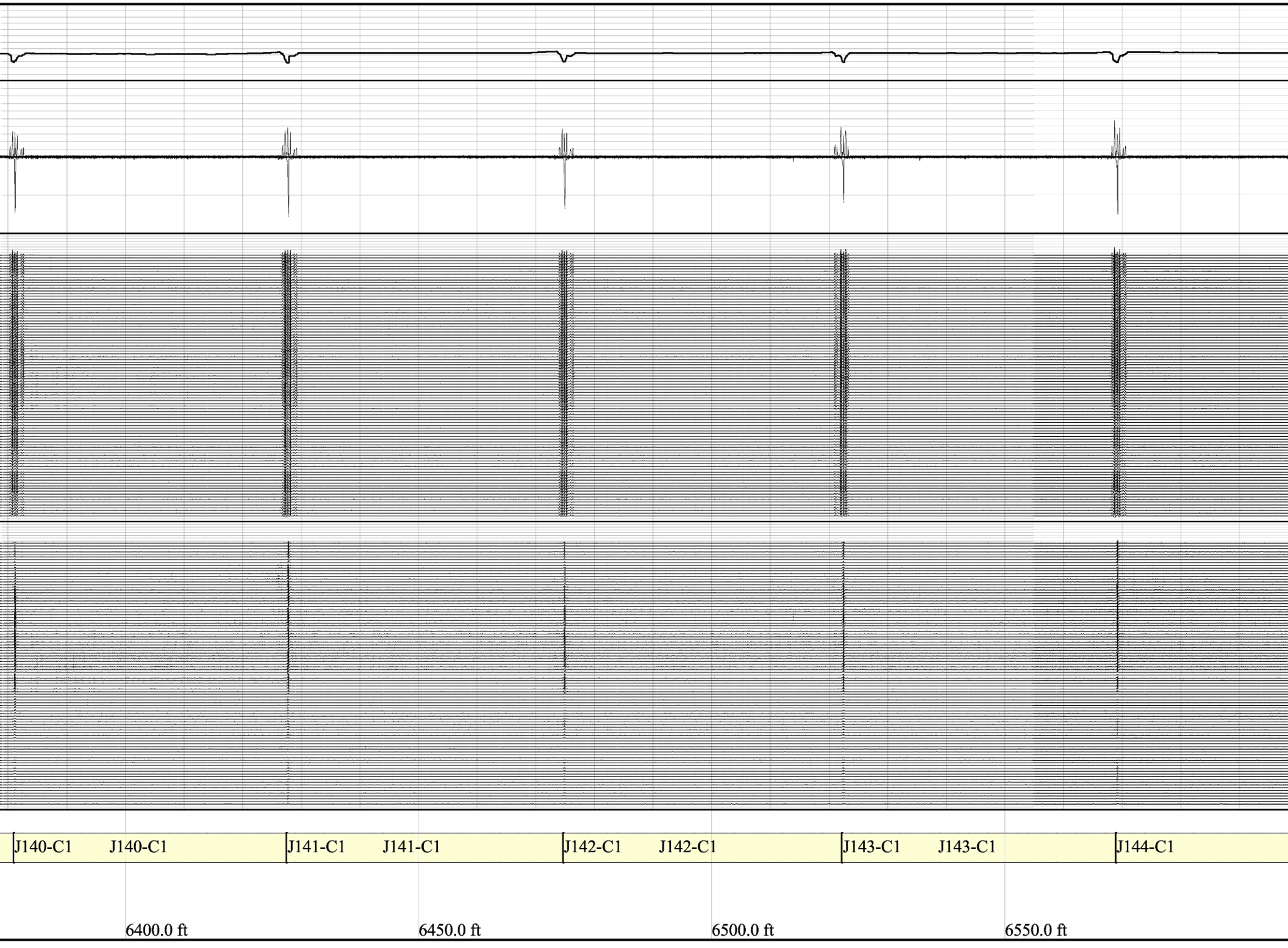
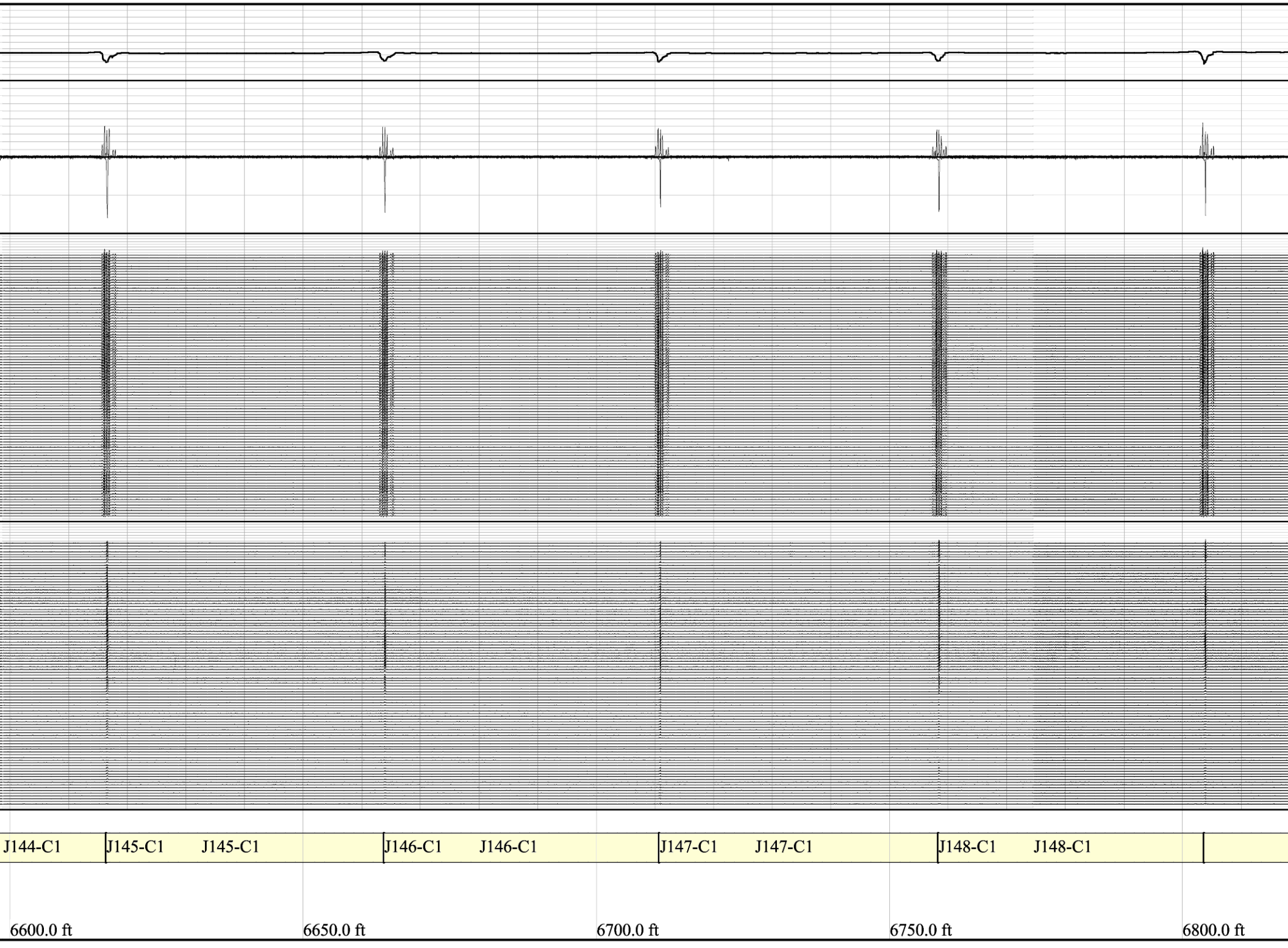
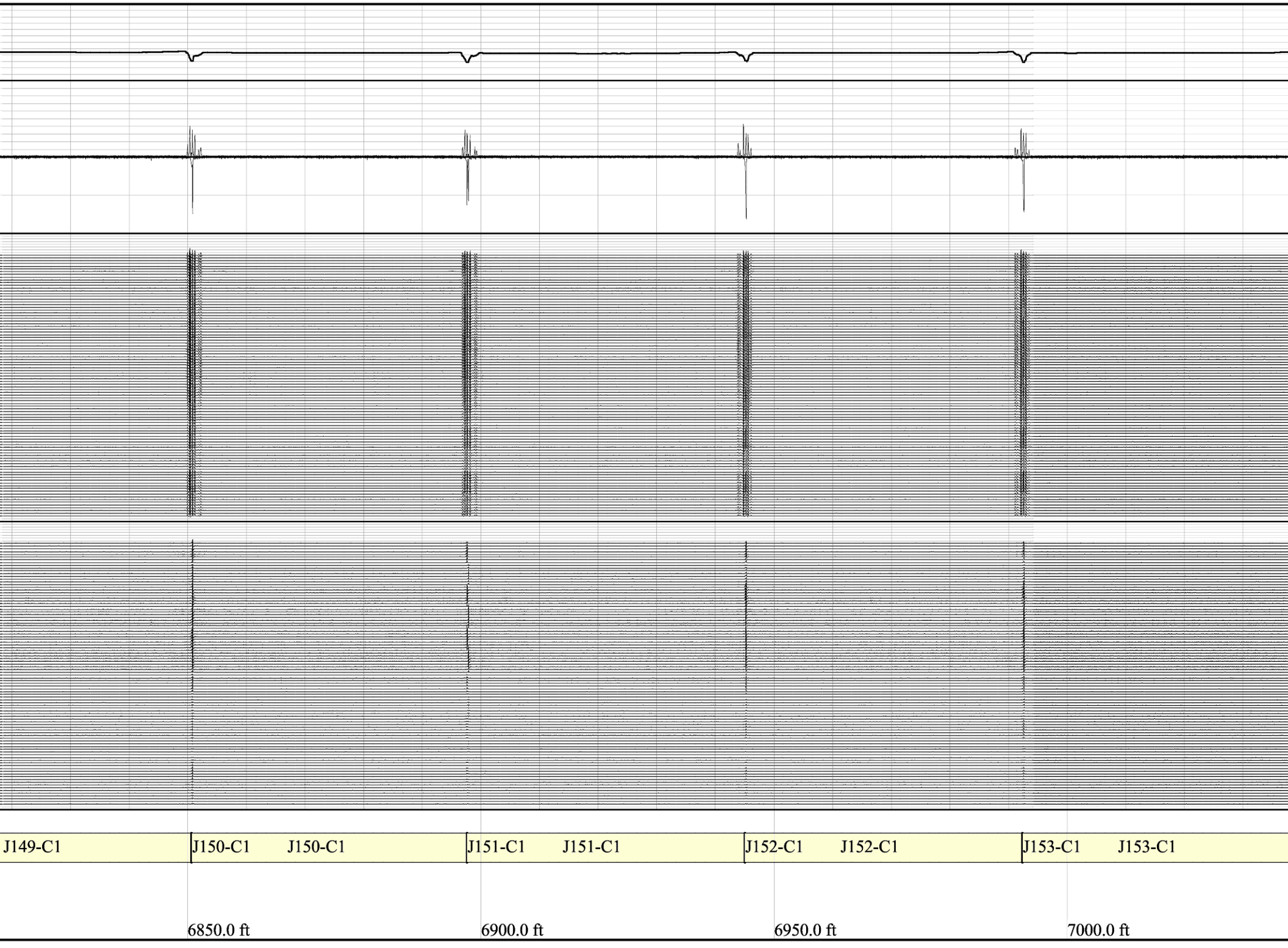
5800.0 ft
5850.0 ft
5900.0 ft


J130-C1
J131-C1
J131-C1
J132-C1
J132-C1
J133-C1
J133-C1
J134-C1
J134-C1
5950.0 ft
6000.0 ft
6050.0 ft
6100.0 ft
6150.0


J135-C1
J135-C1
J136-C1
J136-C1
J137-C1
J137-C1
J138-C1
J138-C1
J139-C1
J139-C1
ft
6200.0 ft
6250.0 ft
6300.0 ft
6350.0 ft


J140-C1
J140-C1
J141-C1
J141-C1
J142-C1
J142-C1
J143-C1
J143-C1
J144-C1
6400.0 ft
6450.0 ft
6500.0 ft
6550.0 ft


J144-C1
J145-C1
J145-C1
J146-C1
J146-C1
J147-C1
J147-C1
J148-C1
J148-C1
6600.0 ft
6650.0 ft
6700.0 ft
6750.0 ft
6800.0 ft


J149-C1
J150-C1
J150-C1
J151-C1
J151-C1
J152-C1
J152-C1
J153-C1
J153-C1
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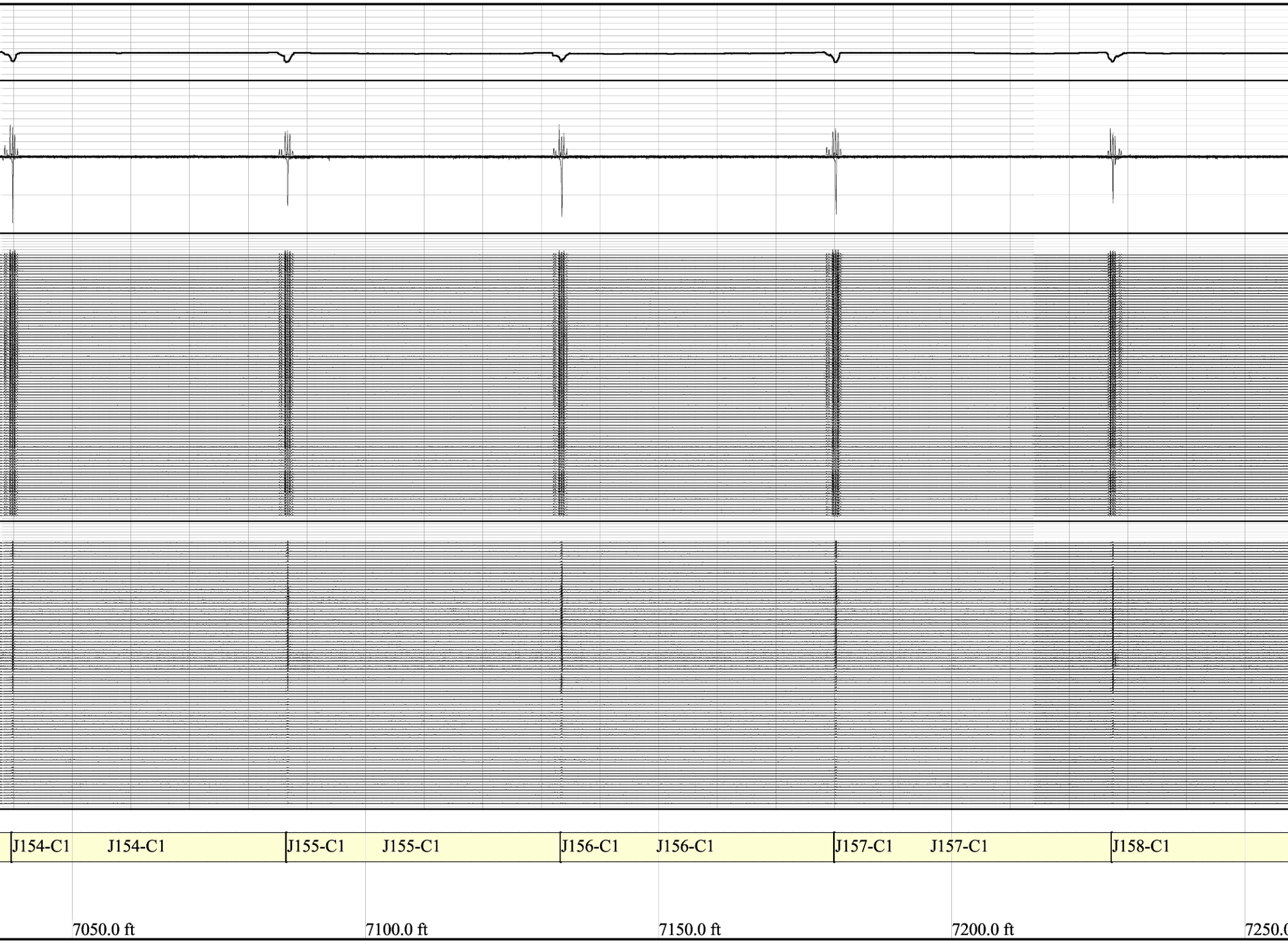
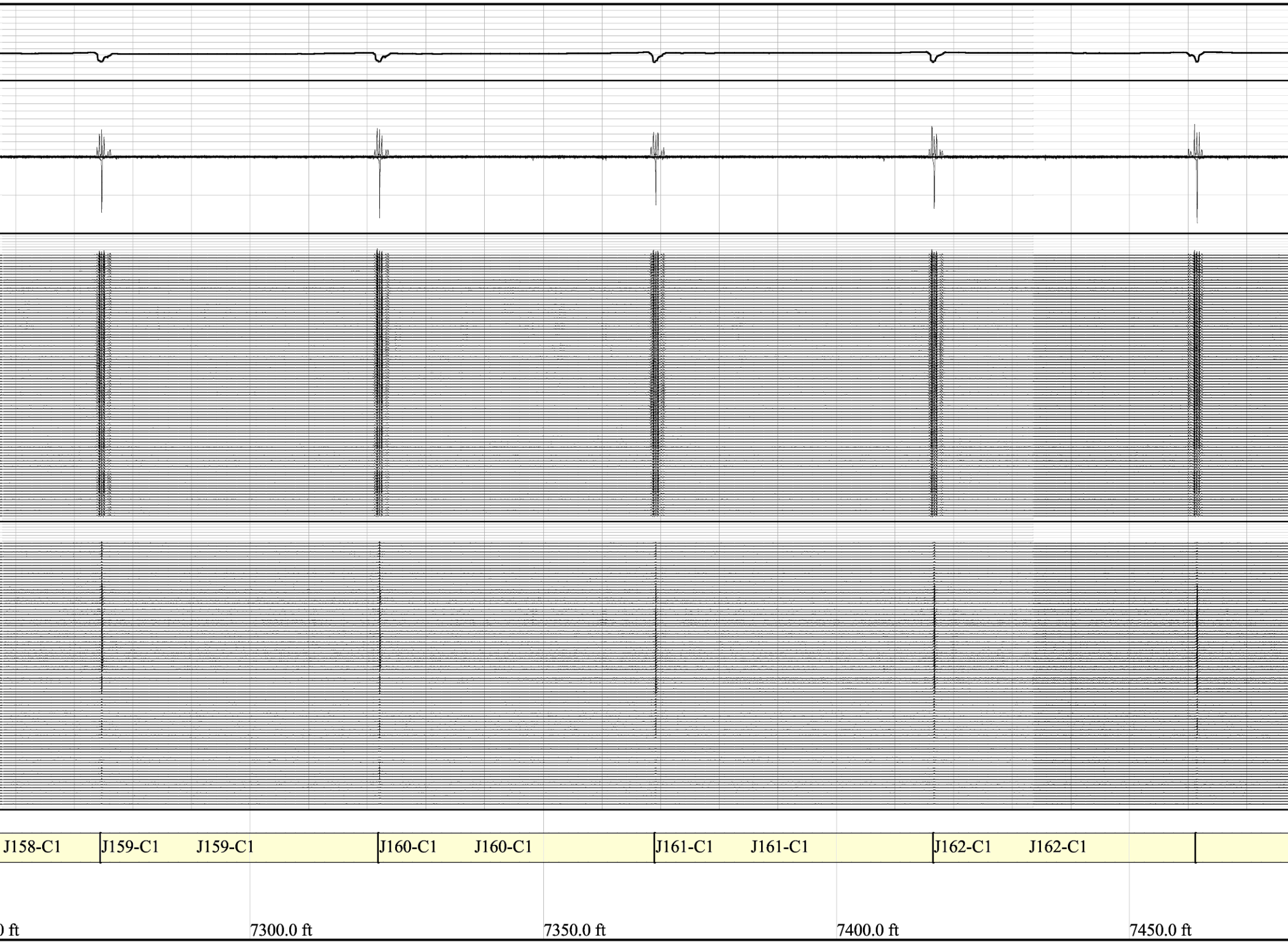
6900.0 ft
6950.0 ft
7000.0 ft


J154-C1
J154-C1
J155-C1
J155-C1
J156-C1
J156-C1
J157-C1
J157-C1
J158-C1
7050.0 ft
7100.0 ft
7150.0 ft
7200.0 ft


J158-C1
J159-C1
J159-C1
J160-C1
J160-C1
J161-C1
J161-C1
J162-C1
J162-C1
0 ft
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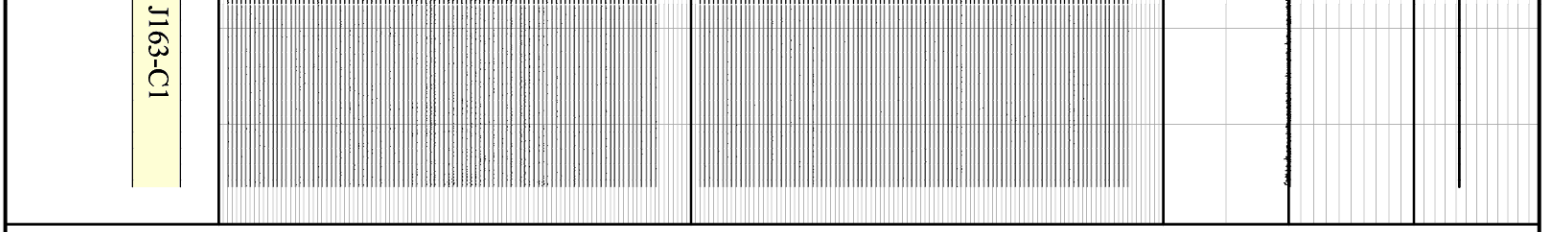
7400.0 ft
7450.0 ft



Southern California Gas Company Porter 69J
File 20160331_07173A_RSP_0_0_0_0_0.mvl

Joint Summary

Southern California Gas Company
Aliso Canyon
Porter 69J

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	36.16	11.34	9.625	0.472	47.0	0			1
JT-2	47.50	46.91	9.625	0.472	47.0	0			1
JT-3	94.41	46.89	9.625	0.472	47.0	0			1
JT-4	141.30	46.94	9.625	0.472	47.0	0			1
JT-5	188.23	46.06	9.625	0.472	47.0	0			1
JT-6	234.29	46.53	9.625	0.472	47.0	0			1
JT-7	280.82	46.88	9.625	0.472	47.0	0			1
JT-8	327.70	46.92	9.625	0.472	47.0	0			1
JT-9	374.62	44.41	9.625	0.472	47.0	0			1
JT-10	419.04	43.90	9.625	0.472	47.0	0			1
JT-11	462.94	44.82	9.625	0.472	47.0	0			1
JT-12	507.75	42.43	9.625	0.472	47.0	0			1
JT-13	550.19	44.97	9.625	0.472	47.0	0			1
JT-14	595.16	46.26	9.625	0.472	47.0	0			1
JT-15	641.42	42.05	9.625	0.472	47.0	0			1
JT-16	683.47	45.87	9.625	0.472	47.0	0			1
JT-17	729.33	46.32	9.625	0.472	47.0	0			1
JT-18	775.65	44.62	9.625	0.472	47.0	0			1
JT-19	820.28	46.55	9.625	0.472	47.0	0			1
JT-20	866.83	46.56	9.625	0.472	47.0	0			1
JT-21	913.39	43.50	9.625	0.472	47.0	0			1
JT-22	956.89	45.52	9.625	0.472	47.0	0			1
JT-23	1002.41	46.70	9.625	0.472	47.0	0			1
JT-24	1049.11	46.15	9.625	0.472	47.0	0			1
JT-25	1095.26	46.11	9.625	0.472	47.0	0			1
JT-26	1141.37	45.60	9.625	0.472	47.0	0			1
JT-27	1186.97	45.75	9.625	0.472	47.0	0			1
JT-28	1232.72	45.39	9.625	0.472	47.0	0			1
JT-29	1278.11	43.88	9.625	0.472	47.0	0			1
JT-30	1321.99	47.32	9.625	0.472	47.0	0			1
JT-31	1369.30	47.35	9.625	0.472	47.0	0			1
JT-32	1416.65	46.28	9.625	0.472	47.0	0			1
JT-33	1462.93	47.28	9.625	0.472	47.0	0			1
JT-34	1510.21	45.07	9.625	0.472	47.0	0			1
JT-35	1555.28	45.83	9.625	0.472	47.0	0			1
JT-36	1601.12	45.92	9.625	0.472	47.0	0			1
JT-37	1647.04	45.22	9.625	0.472	47.0	0			1
JT-38	1692.27	45.69	9.625	0.472	47.0	0			1
JT-39	1737.96	46.80	9.625	0.472	47.0	0			1
JT-40	1784.76	46.54	9.625	0.472	47.0	0			1
JT-41	1831.30	47.00	9.625	0.472	47.0	0			1
JT-42	1878.29	45.62	9.625	0.472	47.0	0			1
JT-43	1923.92	45.88	9.625	0.472	47.0	0			1
JT-44	1969.80	46.60	9.625	0.472	47.0	0			1
JT-45	2016.40	46.32	9.625	0.472	47.0	0			1
JT-46	2062.72	44.48	9.625	0.472	47.0	0			1
JT-47	2107.20	42.32	9.625	0.472	47.0	0			1
JT-48	2149.52	44.57	9.625	0.472	47.0	0			1
JT-49	2194.09	45.60	9.625	0.472	47.0	0			1
JT-50	2239.69	46.50	9.625	0.472	47.0	0			1
JT-51	2286.19	46.27	9.625	0.472	47.0	0			1
JT-52	2332.46	46.17	9.625	0.472	47.0	0			1
JT-53	2378.63	46.74	9.625	0.472	47.0	0			1
JT-54	2425.37	46.68	9.625	0.472	47.0	0			1
JT-55	2472.05	46.80	9.625	0.472	47.0	0			1
JT-56	2518.85	46.50	9.625	0.472	47.0	0			1
JT-57	2565.35	44.17	9.625	0.472	47.0	0			1

JT-58	2609.52	46.43	9.625	0.472	47.0	0	1
JT-59	2655.95	46.78	9.625	0.472	47.0	0	1
JT-60	2702.73	43.85	9.625	0.472	47.0	0	1
JT-61	2746.57	45.62	9.625	0.472	47.0	0	1
JT-62	2792.19	46.85	9.625	0.472	47.0	0	1
JT-63	2839.04	46.77	9.625	0.472	47.0	0	1
JT-64	2885.81	47.02	9.625	0.472	47.0	0	1
JT-65	2932.82	47.24	9.625	0.472	47.0	0	1
JT-66	2980.06	46.36	9.625	0.472	47.0	0	1
JT-67	3026.42	45.82	9.625	0.472	47.0	0	1
JT-68	3072.24	47.24	9.625	0.472	47.0	0	1
JT-69	3119.49	45.80	9.625	0.472	47.0	0	1
JT-70	3165.29	42.99	9.625	0.472	47.0	0	1
JT-71	3208.27	46.91	9.625	0.472	47.0	0	1
JT-72	3255.19	45.67	9.625	0.472	47.0	0	1
JT-73	3300.86	46.59	9.625	0.472	47.0	0	1
JT-74	3347.45	46.95	9.625	0.472	47.0	0	1
JT-75	3394.39	46.56	9.625	0.472	47.0	0	1
JT-76	3440.96	44.32	9.625	0.472	47.0	0	1
JT-77	3485.28	45.38	9.625	0.472	47.0	0	1
JT-78	3530.66	46.65	9.625	0.472	47.0	0	1
JT-79	3577.31	45.78	9.625	0.472	47.0	0	1
JT-80	3623.09	46.66	9.625	0.472	47.0	0	1
JT-81	3669.75	43.68	9.625	0.472	47.0	0	1
JT-82	3713.43	42.73	9.625	0.472	47.0	0	1
JT-83	3756.17	37.18	9.625	0.472	47.0	0	1
JT-84	3793.35	44.86	9.625	0.472	47.0	0	1
JT-85	3838.21	46.60	9.625	0.472	47.0	0	1
JT-86	3884.80	46.88	9.625	0.472	47.0	0	1
JT-87	3931.69	43.80	9.625	0.472	47.0	0	1
JT-88	3975.49	46.87	9.625	0.472	47.0	0	1
JT-89	4022.35	46.77	9.625	0.472	47.0	0	1
JT-90	4069.13	47.32	9.625	0.472	47.0	0	1
JT-91	4116.44	47.19	9.625	0.472	47.0	0	1
JT-92	4163.64	46.75	9.625	0.472	47.0	0	1
JT-93	4210.38	47.38	9.625	0.472	47.0	0	1
JT-94	4257.77	45.19	9.625	0.472	47.0	0	1
JT-95	4302.96	44.15	9.625	0.472	47.0	0	1
JT-96	4347.11	44.06	9.625	0.472	47.0	0	1
JT-97	4391.17	47.31	9.625	0.472	47.0	0	1
JT-98	4438.48	46.21	9.625	0.472	47.0	0	1
JT-99	4484.69	46.44	9.625	0.472	47.0	0	1
JT-100	4531.13	47.35	9.625	0.472	47.0	0	1
JT-101	4578.47	47.05	9.625	0.472	47.0	0	1
JT-102	4625.53	46.00	9.625	0.472	47.0	0	1
JT-103	4671.52	46.62	9.625	0.472	47.0	0	1
JT-104	4718.14	46.36	9.625	0.472	47.0	0	1
JT-105	4764.50	46.83	9.625	0.472	47.0	0	1
JT-106	4811.34	46.60	9.625	0.472	47.0	0	1
JT-107	4857.93	46.26	9.625	0.472	47.0	0	1
JT-108	4904.19	46.56	9.625	0.472	47.0	0	1
JT-109	4950.75	46.59	9.625	0.472	47.0	0	1
JT-110	4997.34	46.51	9.625	0.472	47.0	0	1
JT-111	5043.86	44.99	9.625	0.472	47.0	0	1
JT-112	5088.84	45.98	9.625	0.472	47.0	0	1
JT-113	5134.83	44.75	9.625	0.472	47.0	0	1
JT-114	5179.57	46.94	9.625	0.472	47.0	0	1
JT-115	5226.52	44.80	9.625	0.472	47.0	0	1
JT-116	5271.32	46.09	9.625	0.472	47.0	0	1
JT-117	5317.41	46.10	9.625	0.472	47.0	0	1
JT-118	5363.51	47.38	9.625	0.472	47.0	0	1
JT-119	5410.89	46.84	9.625	0.472	47.0	0	1
JT-120	5457.73	46.98	9.625	0.472	47.0	0	1
JT-121	5504.71	46.46	9.625	0.472	47.0	0	1
JT-122	5551.17	47.04	9.625	0.472	47.0	0	1
JT-123	5598.22	46.00	9.625	0.472	47.0	0	1
JT-124	5644.21	46.38	9.625	0.472	47.0	0	1
JT-125	5690.59	47.28	9.625	0.472	47.0	0	1
JT-126	5737.88	44.82	9.625	0.472	47.0	0	1
JT-127	5782.70	44.28	9.625	0.472	47.0	0	1
JT-128	5826.98	46.39	9.625	0.472	47.0	0	1
JT-129	5873.37	45.42	9.625	0.472	47.0	0	1
JT-130	5918.79	47.05	9.625	0.472	47.0	0	1
JT-131	5965.84	46.53	9.625	0.472	47.0	0	1
JT-132	6012.37	45.24	9.625	0.472	47.0	0	1
JT-133	6057.61	46.21	9.625	0.472	47.0	0	1
JT-134	6103.82	47.40	9.625	0.472	47.0	0	1
JT-135	6151.22	47.22	9.625	0.472	47.0	0	1
JT-136	6198.44	45.52	9.625	0.472	47.0	0	1
JT-137	6243.96	47.32	9.625	0.472	47.0	0	1
JT-138	6291.28	46.34	9.625	0.472	47.0	0	1
JT-139	6337.62	43.42	9.625	0.472	47.0	0	1
JT-140	6381.03	46.53	9.625	0.472	47.0	0	1
JT-141	6427.56	47.17	9.625	0.472	47.0	0	1
JT-142	6474.73	47.58	9.625	0.472	47.0	0	1

JT-143	6522.31	46.70	9.625	0.472	47.0	0	1
JT-144	6569.02	47.37	9.625	0.472	47.0	0	1
JT-145	6616.39	47.43	9.625	0.472	47.0	0	1
JT-146	6663.82	46.97	9.625	0.472	47.0	0	1
JT-147	6710.79	47.52	9.625	0.472	47.0	0	1
JT-148	6758.32	45.41	9.625	0.472	47.0	0	1
JT-149	6803.73	46.93	9.625	0.472	47.0	0	1
JT-150	6850.66	46.97	9.625	0.472	47.0	0	1
JT-151	6897.63	47.46	9.625	0.472	47.0	0	1
JT-152	6945.08	47.33	9.625	0.472	47.0	0	1
JT-153	6992.41	47.27	9.625	0.472	47.0	0	1
JT-154	7039.68	46.90	9.625	0.472	47.0	0	1
JT-155	7086.58	46.73	9.625	0.472	47.0	0	1
JT-156	7133.31	46.72	9.625	0.472	47.0	0	1
JT-157	7180.03	47.31	9.625	0.472	47.0	0	1
JT-158	7227.34	47.25	9.625	0.472	47.0	0	1
JT-159	7274.58	47.38	9.625	0.472	47.0	0	1
JT-160	7321.97	47.11	9.625	0.472	47.0	0	1
JT-161	7369.08	47.49	9.625	0.472	47.0	0	1
JT-162	7416.57	44.78	9.625	0.472	47.0	0	1
JT-163	7461.35	35.12	9.625	0.472	47.0	0	1