HR Vertilog

Magnetic Flux Leakage Inspection

Company	Southern California Gas Company
Well	Porter 50C
Field	Aliso Canyon
County	Los Angeles
State	California

Location:
LAT: 34.31505
LONG: -118.54728

Section	27	Township 3N	Range 16W

Date	Mar. 17, 2016
Service Order	US106491J
Recorded by	Sid Gornto
Witnessed by	MR. Jeff Mosier
API Serial No.	04-037-24337

Permanent Datum:	GL	Elevation: 1953.000 ft.		Depth	6430.000
Log Measured From:	KB	22.050 ft. above Perm. Datum		Btm. Log Interval	6430.000
Drilling Measured From:	KB	22.050 ft. above Perm. Datum		Top Log Interval	0.000
				Fluid Type	KCL

Casing Data

Size	Weight	Grade	From	To	Length
9.625 inch	47.0 lb/ft	L-80 (Hydril)	0	7307	7307.0
13 3/8 inch	54.5 lb/ft	K-55	0	1012	1012.0
5 1/2 inch	17.0 lb/ft.	L-80	7131	8749	1618.0

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	10360726	

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
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

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

Log Correlated to USIT log dated 05 JUL 2014
RBP set at 7122', sand place to 7112'.
Tool was unable to reach the intended depth of 7112'.
A restriction was found on ICAL run after this log.

Interpretation

HRVRT Analysis was depth correlated Caliper log logged 17 Mar 2016.

The top joint is a short joint.

Internal Circumferential features with metal loss signature can be seen in some joints. These features appear to be mechanical or manufacturing in nature and fall below the 15% threshold value for classification, see example in joint # 4.

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

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	Type	ID/OD

Joint	From	To	Length	Class	Max Depth	Position	Type	ID/OD
1	6.58	21.44	14.86	Class 1	-	-	-	-
2	21.44	60.04	38.60	Class 1	-	-	-	-
3	60.04	98.14	38.10	Class 1	-	-	-	-
4	98.14	136.31	38.17	Class 1	-	-	-	-
5	136.31	175.30	38.99	Class 1	-	-	-	-
6	175.30	213.71	38.41	Class 1	-	-	-	-
7	213.71	253.81	40.10	Class 1	-	-	-	-
8	253.81	290.62	36.81	Class 1	-	-	-	-
9	290.62	330.56	39.94	Class 1	-	-	-	-
10	330.56	370.35	39.79	Class 1	-	-	-	-
11	370.35	410.53	40.18	Class 1	-	-	-	-
12	410.53	450.21	39.68	Class 1	-	-	-	-
13	450.21	490.20	39.99	Class 1	-	-	-	-
14	490.20	529.44	39.24	Class 1	-	-	-	-
15	529.44	568.23	38.79	Class 1	-	-	-	-
16	568.23	608.36	40.13	Class 1	-	-	-	-
17	608.36	648.16	39.80	Class 1	-	-	-	-
18	648.16	687.33	39.17	Class 1	-	-	-	-
19	687.33	724.72	37.39	Class 1	15.0%	706.73	ISO	ID
20	724.72	764.86	40.14	Class 1	-	-	-	-
21	764.86	804.87	40.01	Class 1	-	-	-	-
22	804.87	844.92	40.05	Class 1	-	-	-	-
23	844.92	884.80	39.88	Class 2	22.0%	865.57	ISO	ID
24	884.80	923.02	38.22	Class 1	-	-	-	-
25	923.02	961.55	38.53	Class 1	-	-	-	-
26	961.55	1001.45	39.90	Class 1	-	-	-	-
27	1001.45	1041.26	39.81	Class 1	-	-	-	-
28	1041.26	1079.91	38.65	Class 1	-	-	-	-
29	1079.91	1119.89	39.98	Class 1	-	-	-	-
30	1119.89	1159.72	39.83	Class 1	-	-	-	-
31	1159.72	1197.87	38.15	Class 1	-	-	-	-
32	1197.87	1237.82	39.95	Class 1	-	-	-	-
33	1237.82	1277.93	40.11	Class 1	-	-	-	-
34	1277.93	1317.83	39.90	Class 1	-	-	-	-
35	1317.83	1357.84	40.01	Class 1	-	-	-	-
36	1357.84	1397.74	39.90	Class 1	-	-	-	-
37	1397.74	1437.70	39.96	Class 1	-	-	-	-
38	1437.70	1477.59	39.89	Class 1	-	-	-	-
39	1477.59	1517.60	40.01	Class 1	-	-	-	-
40	1517.60	1557.49	39.89	Class 1	-	-	-	-
41	1557.49	1597.33	39.84	Class 1	-	-	-	-
42	1597.33	1635.29	37.96	Class 1	-	-	-	-
43	1635.29	1675.42	40.13	Class 1	-	-	-	-
44	1675.42	1715.34	39.92	Class 1	-	-	-	-
45	1715.34	1755.06	39.72	Class 1	-	-	-	-
46	1755.06	1793.84	38.78	Class 1	-	-	-	-
47	1793.84	1831.84	38.00	Class 1	-	-	-	-
48	1831.84	1870.45	38.61	Class 1	-	-	-	-
49	1870.45	1908.64	38.19	Class 1	-	-	-	-
50	1908.64	1947.01	38.37	Class 1	-	-	-	-
51	1947.01	1985.97	38.96	Class 1	-	-	-	-
52	1985.97	2025.95	39.98	Class 1	-	-	-	-
53	2025.95	2065.75	39.80	Class 1	-	-	-	-
54	2065.75	2105.84	40.09	Class 1	-	-	-	-
55	2105.84	2145.93	40.09	Class 1	-	-	-	-
56	2145.93	2185.64	39.71	Class 1	-	-	-	-
57	2185.64	2225.70	40.06	Class 1	-	-	-	-
58	2225.70	2265.46	39.76	Class 1	-	-	-	-
59	2265.46	2305.46	40.00	Class 1	-	-	-	-
60	2305.46	2345.28	39.82	Class 1	-	-	-	-
61	2345.28	2384.11	38.83	Class 1	-	-	-	-
62	2384.11	2424.38	40.27	Class 1	-	-	-	-
63	2424.38	2461.52	37.14	Class 1	-	-	-	-

64	2461.52	2500.51	38.99	Class 1	-	-	-	-
65	2500.51	2540.22	39.71	Class 1	-	-	-	-
66	2540.22	2580.03	39.81	Class 1	-	-	-	-
67	2580.03	2619.44	39.41	Class 1	-	-	-	-
68	2619.44	2658.02	38.58	Class 1	-	-	-	-
69	2658.02	2698.00	39.98	Class 1	-	-	-	-
70	2698.00	2736.23	38.23	Class 1	16.0%	2718.20	ISO	ID
71	2736.23	2773.96	37.73	Class 1	-	-	-	-
72	2773.96	2813.87	39.91	Class 1	-	-	-	-
73	2813.87	2853.91	40.04	Class 1	-	-	-	-
74	2853.91	2891.66	37.75	Class 1	-	-	-	-
75	2891.66	2931.50	39.84	Class 1	-	-	-	-
76	2931.50	2971.51	40.01	Class 1	-	-	-	-
77	2971.51	3008.56	37.05	Class 1	-	-	-	-
78	3008.56	3047.92	39.36	Class 1	-	-	-	-
79	3047.92	3087.24	39.32	Class 1	-	-	-	-
80	3087.24	3126.28	39.04	Class 1	-	-	-	-
81	3126.28	3164.93	38.65	Class 1	-	-	-	-
82	3164.93	3205.14	40.21	Class 1	-	-	-	-
83	3205.14	3245.16	40.02	Class 1	-	-	-	-
84	3245.16	3285.00	39.84	Class 1	-	-	-	-
85	3285.00	3324.99	39.99	Class 1	-	-	-	-
86	3324.99	3363.62	38.63	Class 1	-	-	-	-
87	3363.62	3403.67	40.05	Class 1	-	-	-	-
88	3403.67	3443.57	39.90	Class 1	-	-	-	-
89	3443.57	3481.75	38.18	Class 1	-	-	-	-
90	3481.75	3520.71	38.96	Class 1	-	-	-	-
91	3520.71	3560.41	39.70	Class 1	-	-	-	-
92	3560.41	3598.79	38.38	Class 1	-	-	-	-
93	3598.79	3637.69	38.90	Class 1	-	-	-	-
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97	3755.36	3793.08	37.72	Class 1	-	-	-	-
98	3793.08	3833.02	39.94	Class 1	-	-	-	-
99	3833.02	3872.29	39.27	Class 1	-	-	-	-
100	3872.29	3911.13	38.84	Class 1	-	-	-	-
101	3911.13	3949.80	38.67	Class 1	-	-	-	-
102	3949.80	3989.63	39.83	Class 1	-	-	-	-
103	3989.63	4029.30	39.67	Class 1	-	-	-	-
104	4029.30	4069.56	40.26	Class 1	-	-	-	-
105	4069.56	4107.58	38.02	Class 1	-	-	-	-
106	4107.58	4146.25	38.67	Class 1	-	-	-	-
107	4146.25	4186.19	39.94	Class 1	-	-	-	-
108	4186.19	4226.05	39.86	Class 1	-	-	-	-
109	4226.05	4265.77	39.72	Class 1	-	-	-	-
110	4265.77	4304.21	38.44	Class 1	-	-	-	-
111	4304.21	4344.01	39.80	Class 1	-	-	-	-
112	4344.01	4384.06	40.05	Class 1	-	-	-	-
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122	4738.82	4777.99	39.17	Class 1	-	-	-	-
123	4777.99	4815.76	37.77	Class 1	-	-	-	-
124	4815.76	4855.30	39.54	Class 1	-	-	-	-
125	4855.30	4895.41	40.11	Class 1	-	-	-	-
126	4895.41	4933.90	38.49	Class 1	-	-	-	-

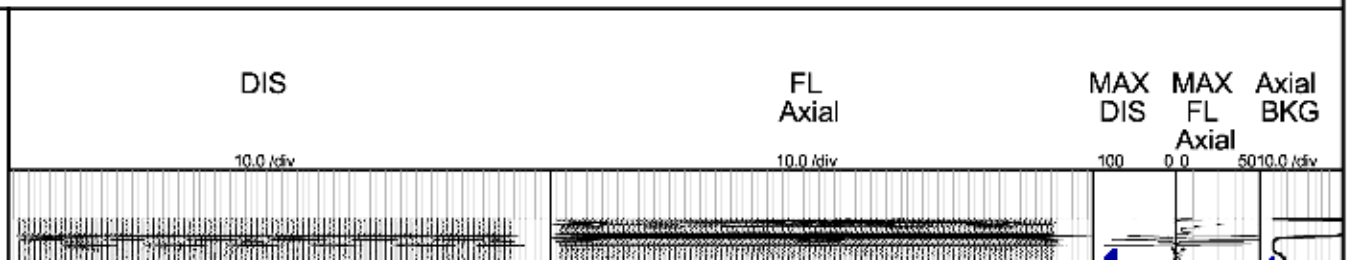
127	4933.90	4973.85	39.95	Class 1	-	-	-	-
128	4973.85	5011.59	37.74	Class 1	-	-	-	-
129	5011.59	5051.66	40.07	Class 1	-	-	-	-
130	5051.66	5091.32	39.66	Class 1	-	-	-	-
131	5091.32	5131.17	39.85	Class 1	-	-	-	-
132	5131.17	5171.12	39.95	Class 1	-	-	-	-
133	5171.12	5209.21	38.09	Class 1	-	-	-	-
134	5209.21	5249.14	39.93	Class 1	-	-	-	-
135	5249.14	5289.13	39.99	Class 1	-	-	-	-
136	5289.13	5328.92	39.79	Class 1	-	-	-	-
137	5328.92	5368.85	39.93	Class 1	-	-	-	-
138	5368.85	5406.38	37.53	Class 1	-	-	-	-
139	5406.38	5444.77	38.39	Class 1	-	-	-	-
140	5444.77	5483.01	38.24	Class 1	-	-	-	-
141	5483.01	5522.22	39.21	Class 1	-	-	-	-
142	5522.22	5562.66	40.44	Class 1	-	-	-	-
143	5562.66	5602.33	39.67	Class 1	-	-	-	-
144	5602.33	5640.76	38.43	Class 1	-	-	-	-
145	5640.76	5678.16	37.40	Class 1	-	-	-	-
146	5678.16	5717.95	39.79	Class 1	-	-	-	-
147	5717.95	5757.74	39.79	Class 1	-	-	-	-
148	5757.74	5795.89	38.15	Class 1	-	-	-	-
149	5795.89	5836.00	40.11	Class 1	-	-	-	-
150	5836.00	5875.49	39.49	Class 1	-	-	-	-
151	5875.49	5915.80	40.31	Class 1	-	-	-	-
152	5915.80	5955.66	39.86	Class 1	-	-	-	-
153	5955.66	5995.44	39.78	Class 1	-	-	-	-
154	5995.44	6035.41	39.97	Class 1	-	-	-	-
155	6035.41	6074.42	39.01	Class 1	-	-	-	-
156	6074.42	6112.98	38.56	Class 1	-	-	-	-
157	6112.98	6152.47	39.49	Class 1	-	-	-	-
158	6152.47	6193.34	40.87	Class 1	-	-	-	-
159	6193.34	6232.72	39.38	Class 1	-	-	-	-
160	6232.72	6272.40	39.68	Class 1	-	-	-	-
161	6272.40	6313.04	40.64	Class 1	-	-	-	-
162	6313.04	6352.35	39.31	Class 1	-	-	-	-
163	6352.35	6390.54	38.19	Class 1	-	-	-	-
164	6390.54	6426.08	35.54	Class 1	15.0%	6412.91	ISO	ID

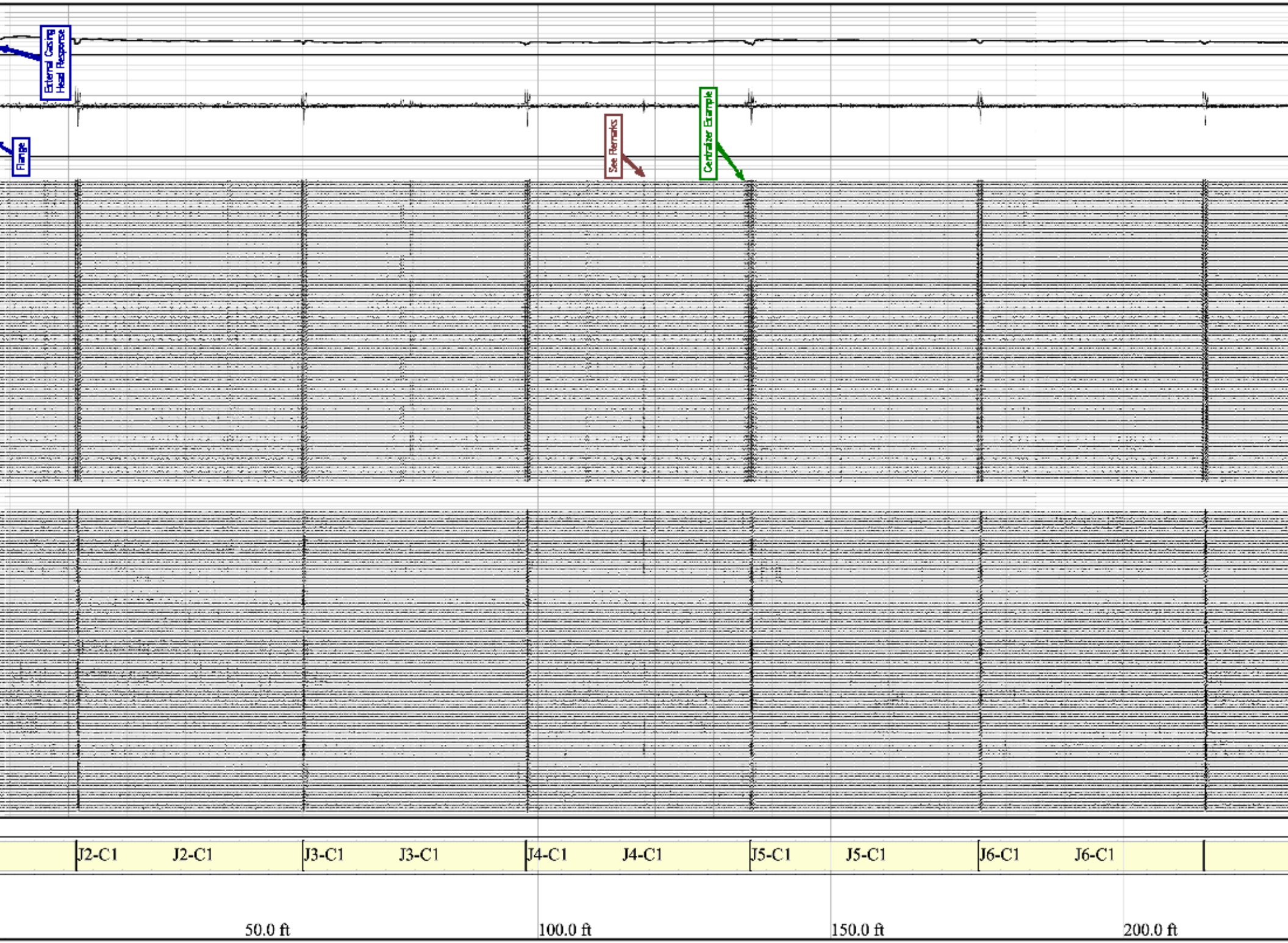
Southern California Gas Company Porter 50C

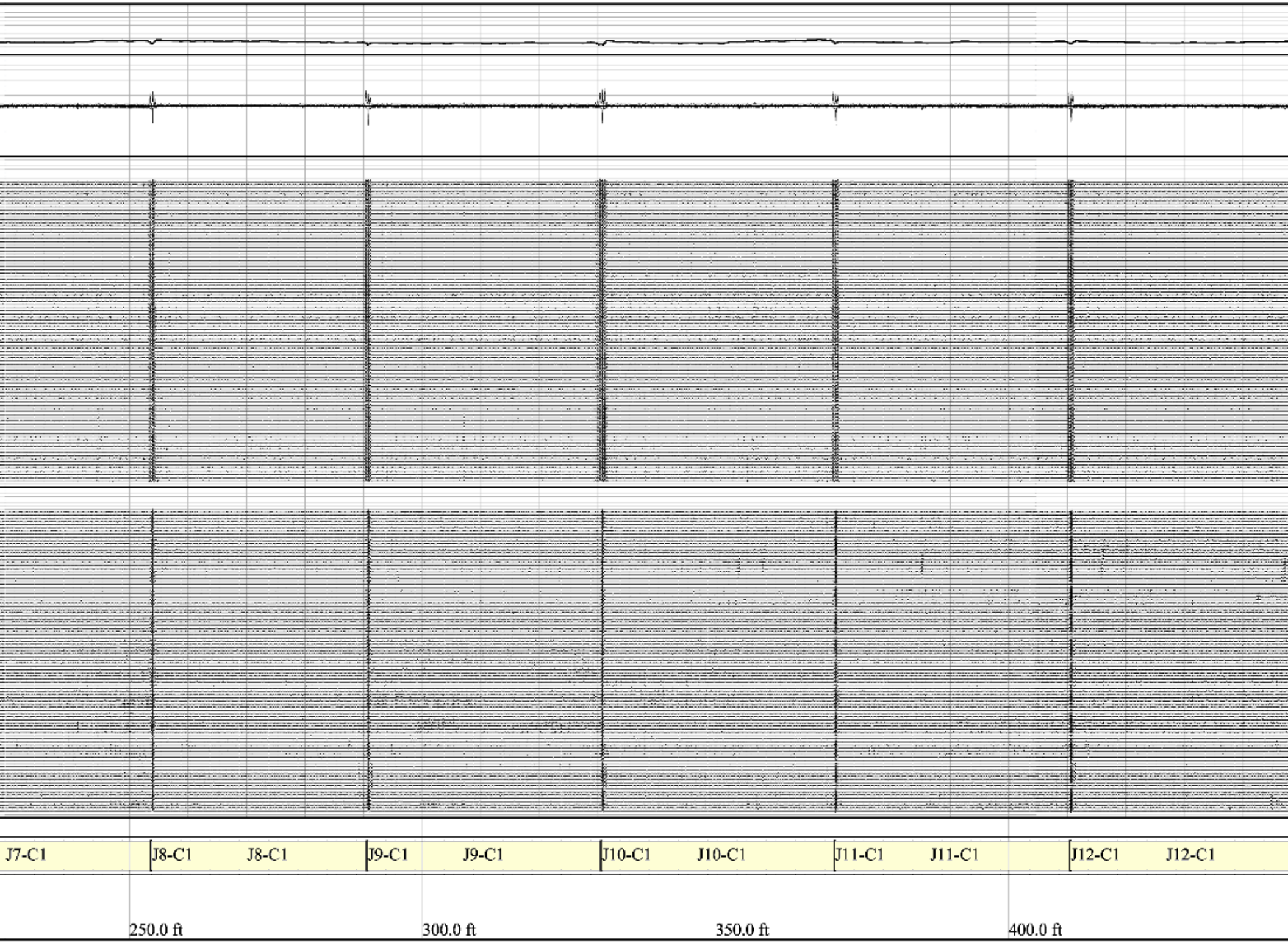
File 20160317_09511A_RSP_0_0_0_0_0_0.mvl

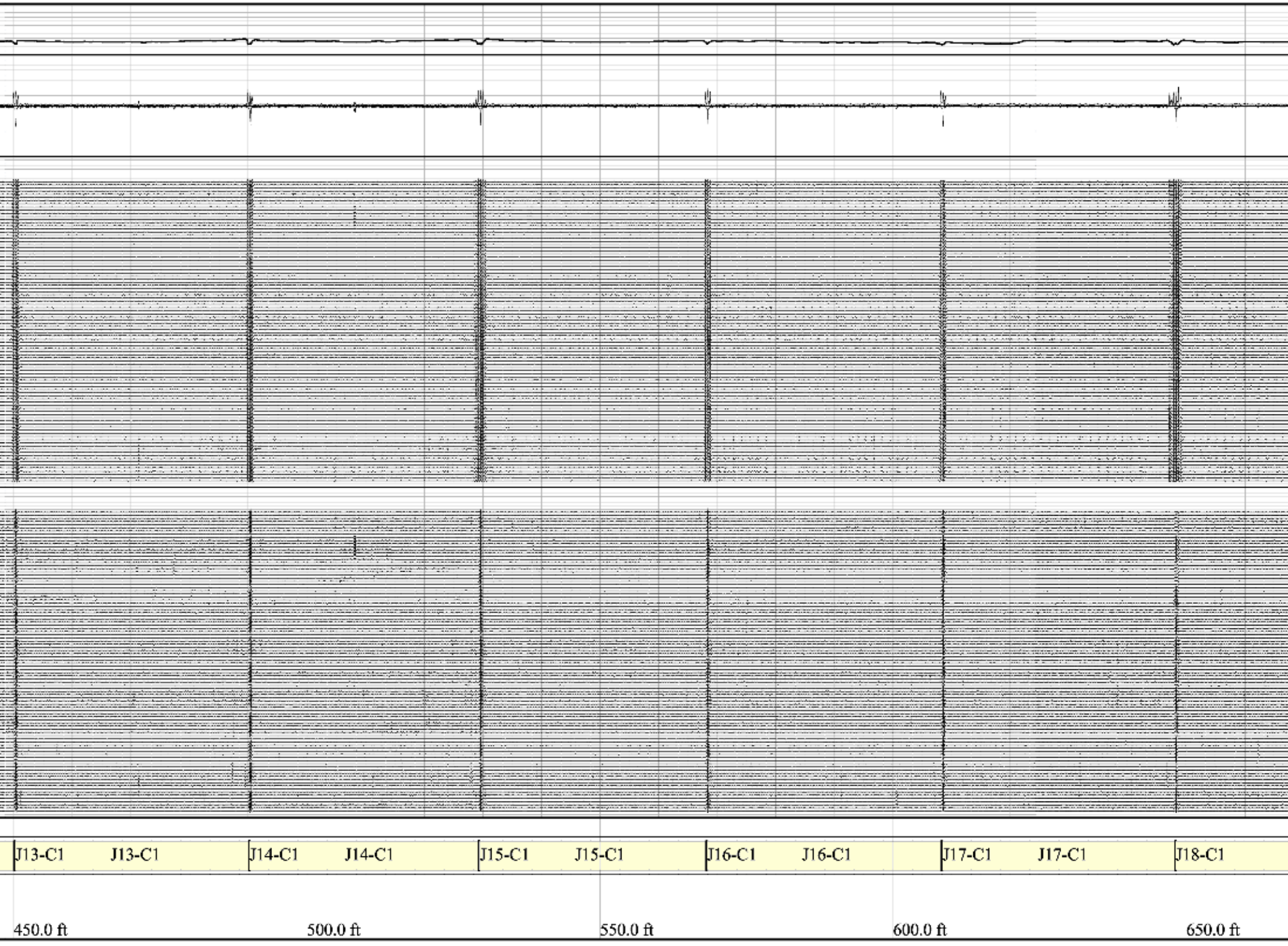
Main Log
5" / 100'

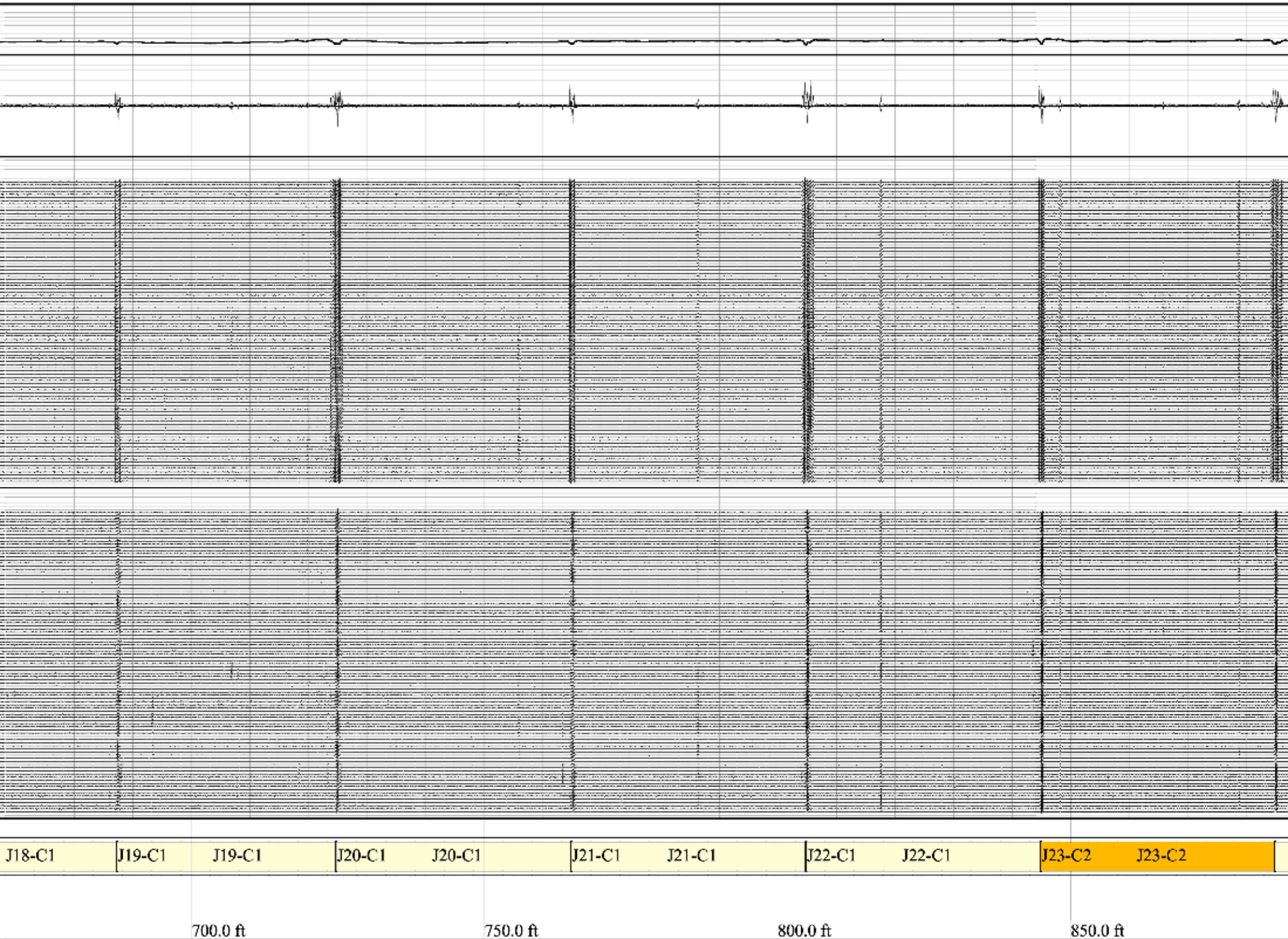
Class 1	Class 2	Class 3	Class 4
0 - 20%	20 - 40%	40 - 60%	60 - 100%

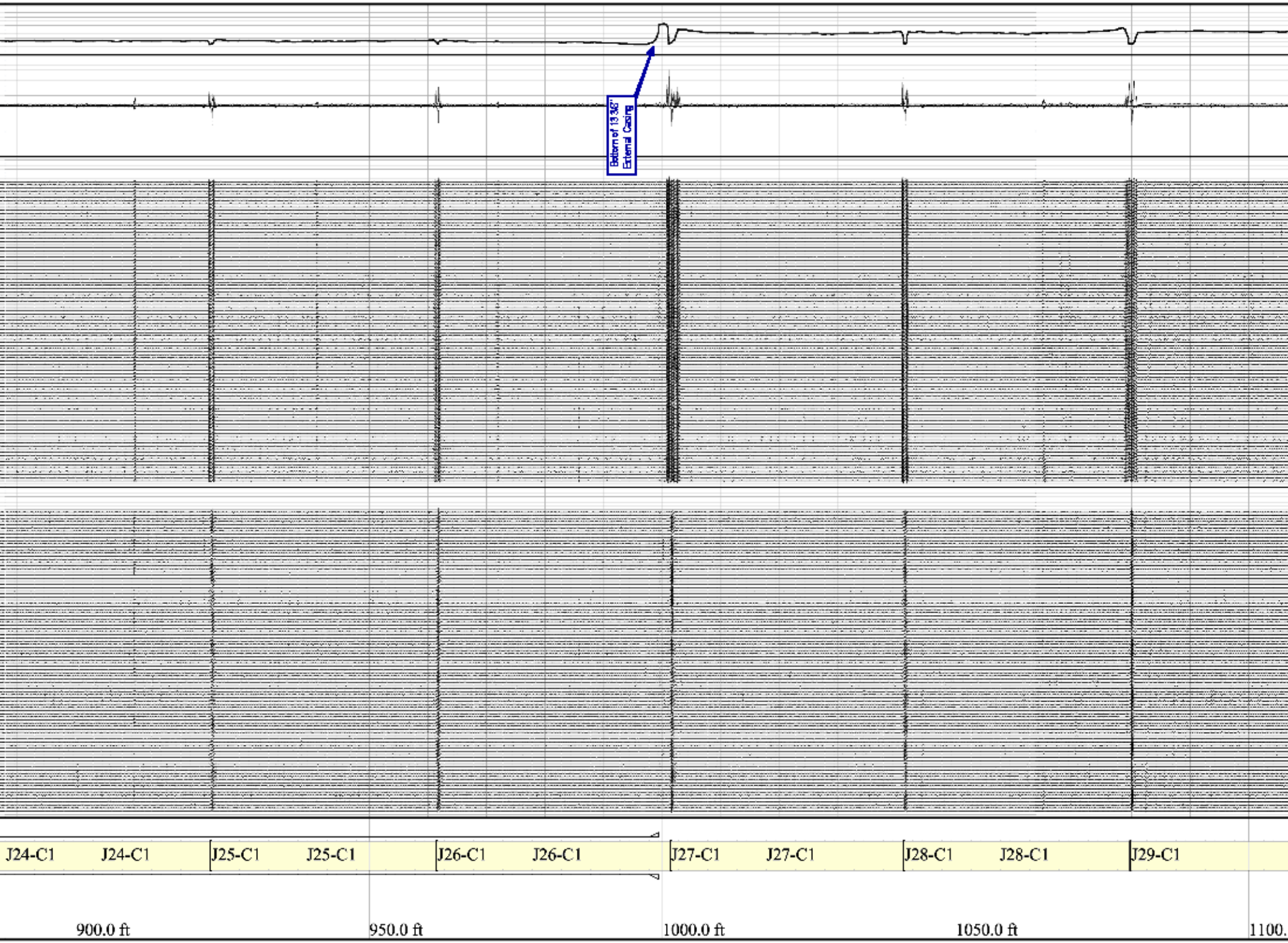


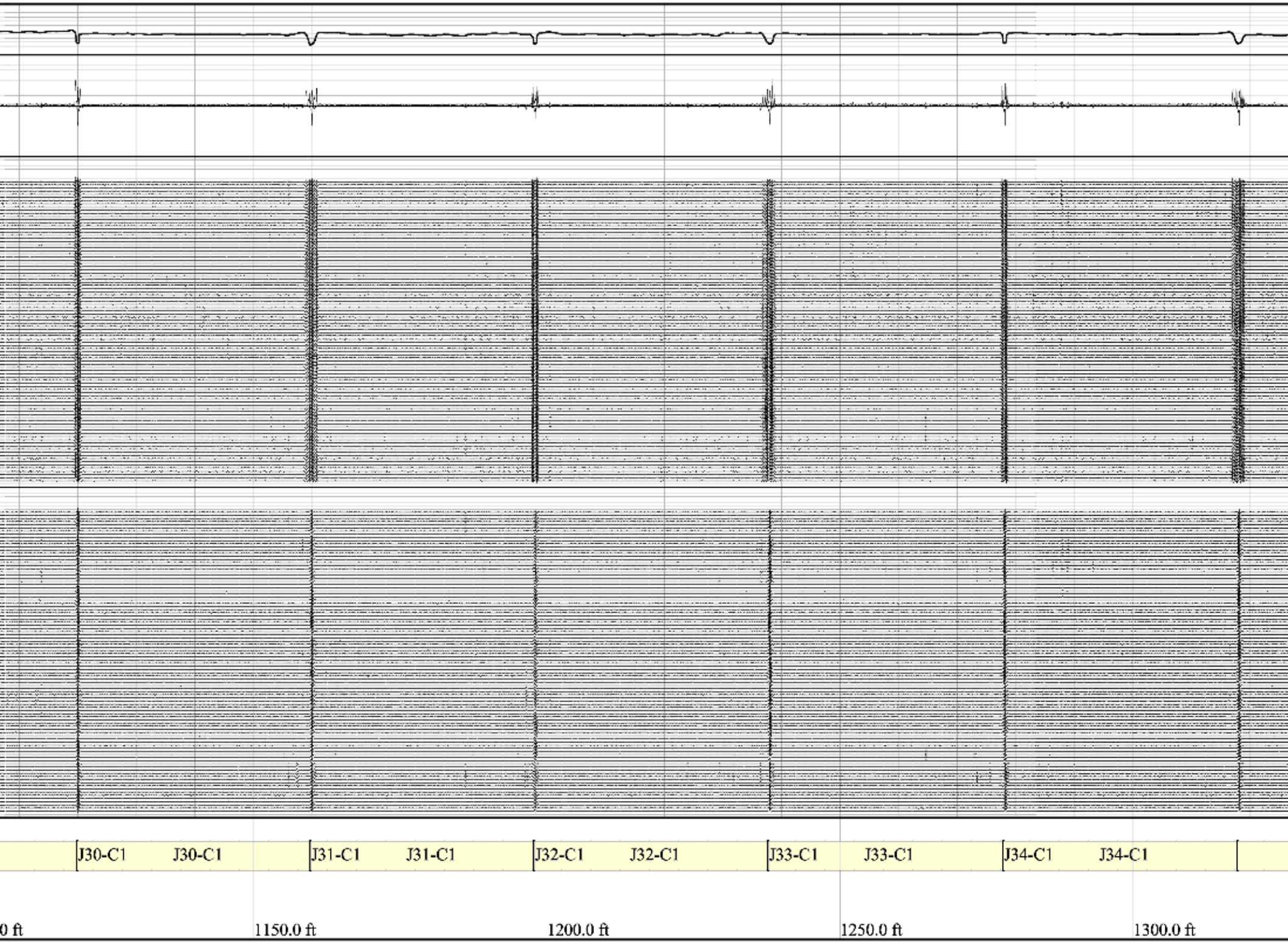

External Casing Head Response
Flange
See Remarks
Centralizer Example
J2-C1
J2-C1
J3-C1
J3-C1
J4-C1
J4-C1
J5-C1
J5-C1
J6-C1
J6-C1
50.0 ft
100.0 ft
150.0 ft
200.0 ft


J7-C1
J8-C1
J8-C1
J9-C1
J9-C1
J10-C1
J10-C1
J11-C1
J11-C1
J12-C1
J12-C1
250.0 ft
300.0 ft
350.0 ft
400.0 ft


J13-C1
J13-C1
J14-C1
J14-C1
J15-C1
J15-C1
J16-C1
J16-C1
J17-C1
J17-C1
J18-C1
450.0 ft
500.0 ft
550.0 ft
600.0 ft
650.0 ft


J18-C1
J19-C1
J19-C1
J20-C1
J20-C1
J21-C1
J21-C1
J22-C1
J22-C1
J23-C2
J23-C2
700.0 ft
750.0 ft
800.0 ft
850.0 ft


Bottom of 13.3/8" External Casing
J24-C1
J24-C1
J25-C1
J25-C1
J26-C1
J26-C1
J27-C1
J27-C1
J28-C1
J28-C1
J29-C1
900.0 ft
950.0 ft
1000.0 ft
1050.0 ft
1100.


J30-C1
J30-C1
J31-C1
J31-C1
J32-C1
J32-C1
J33-C1
J33-C1
J34-C1
J34-C1
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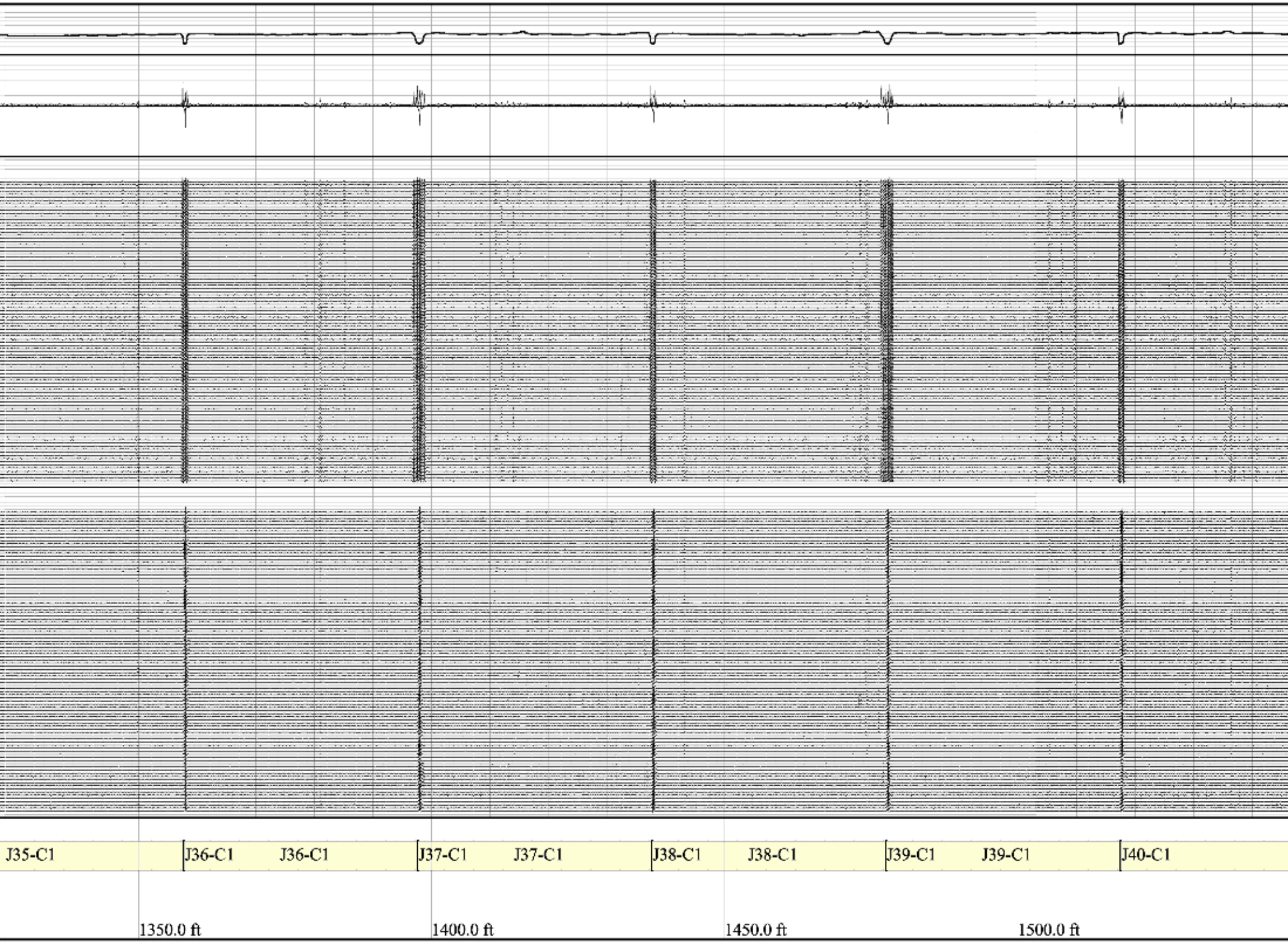
1200.0 ft
1250.0 ft
1300.0 ft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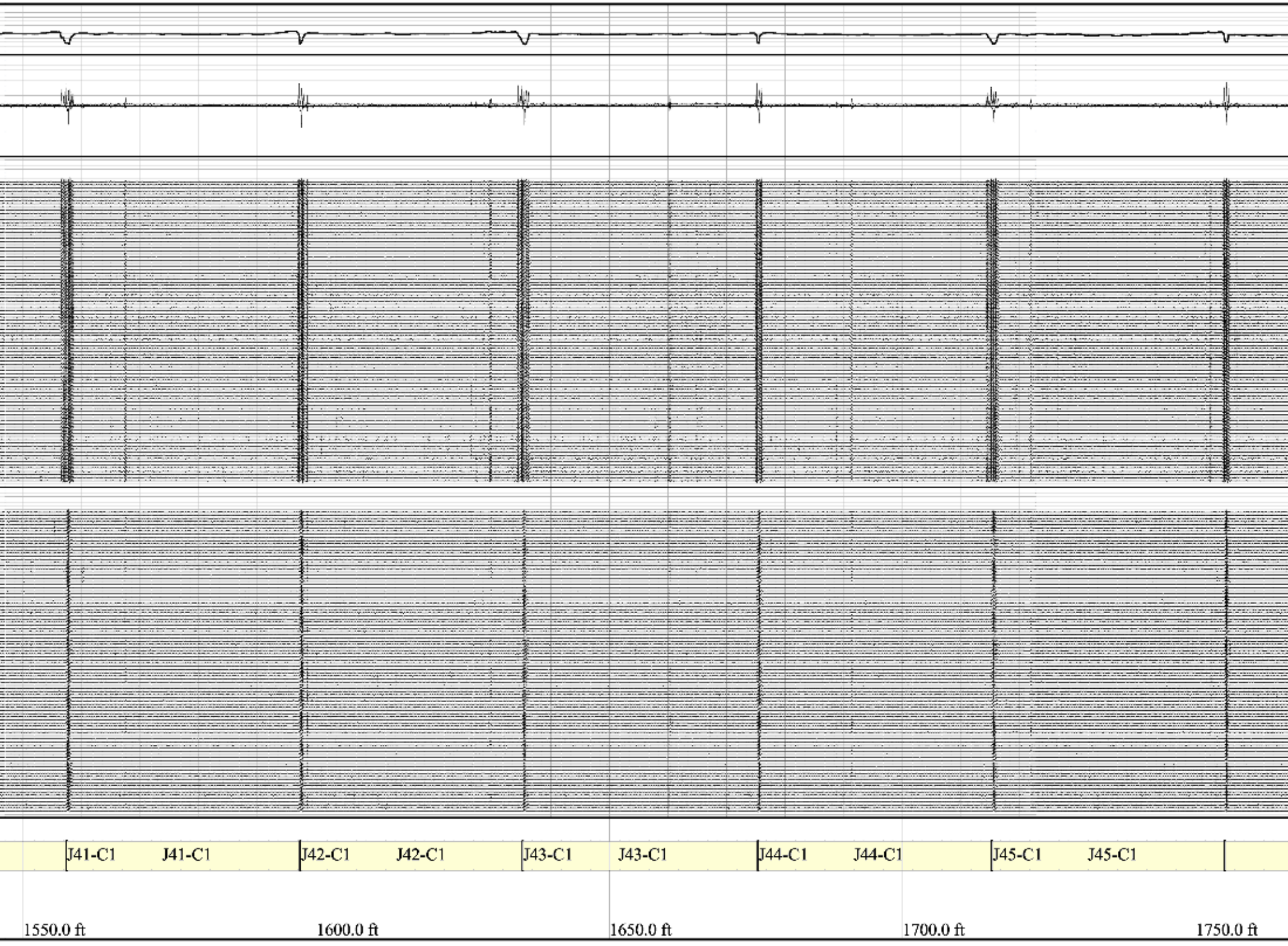
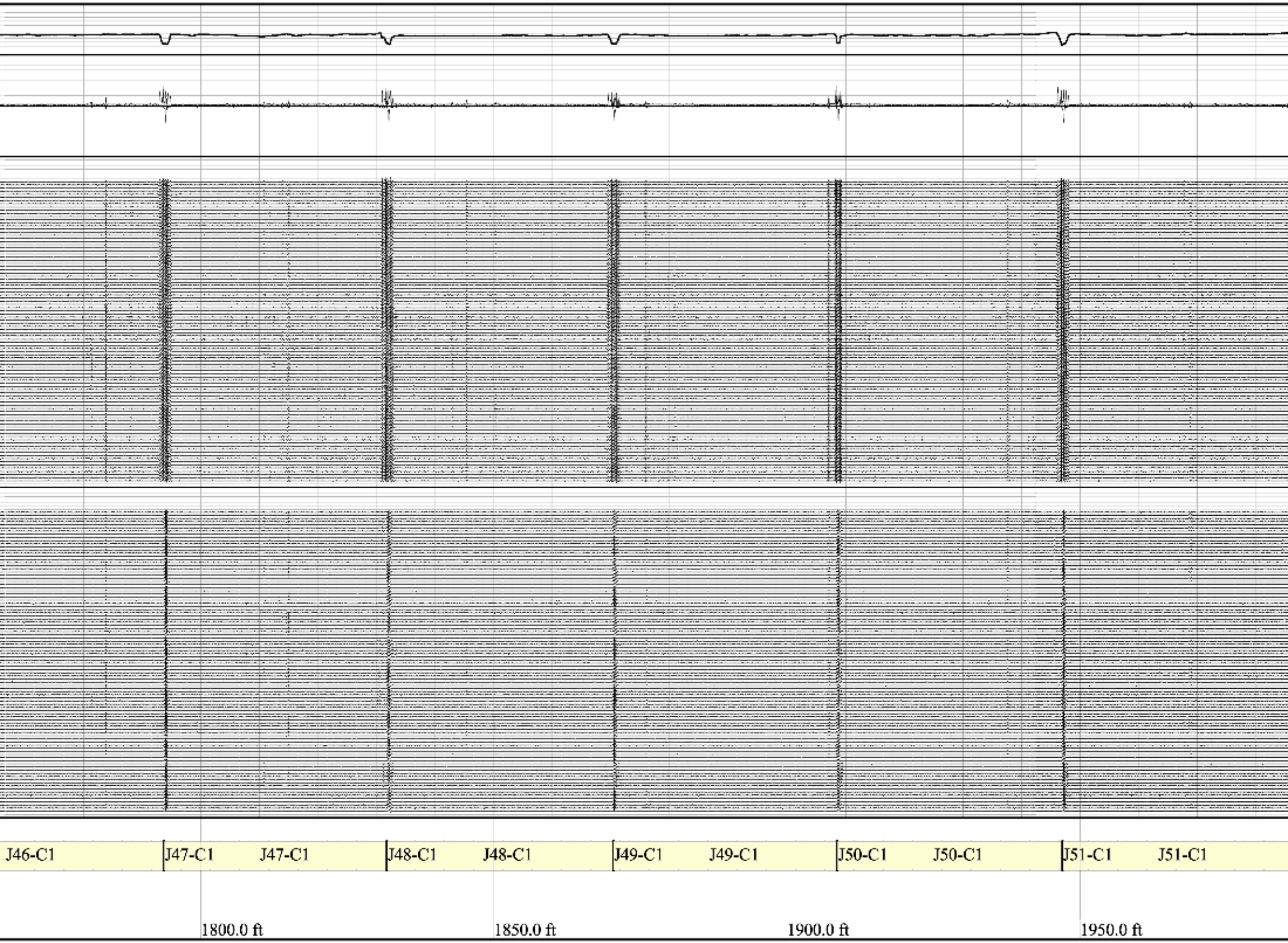
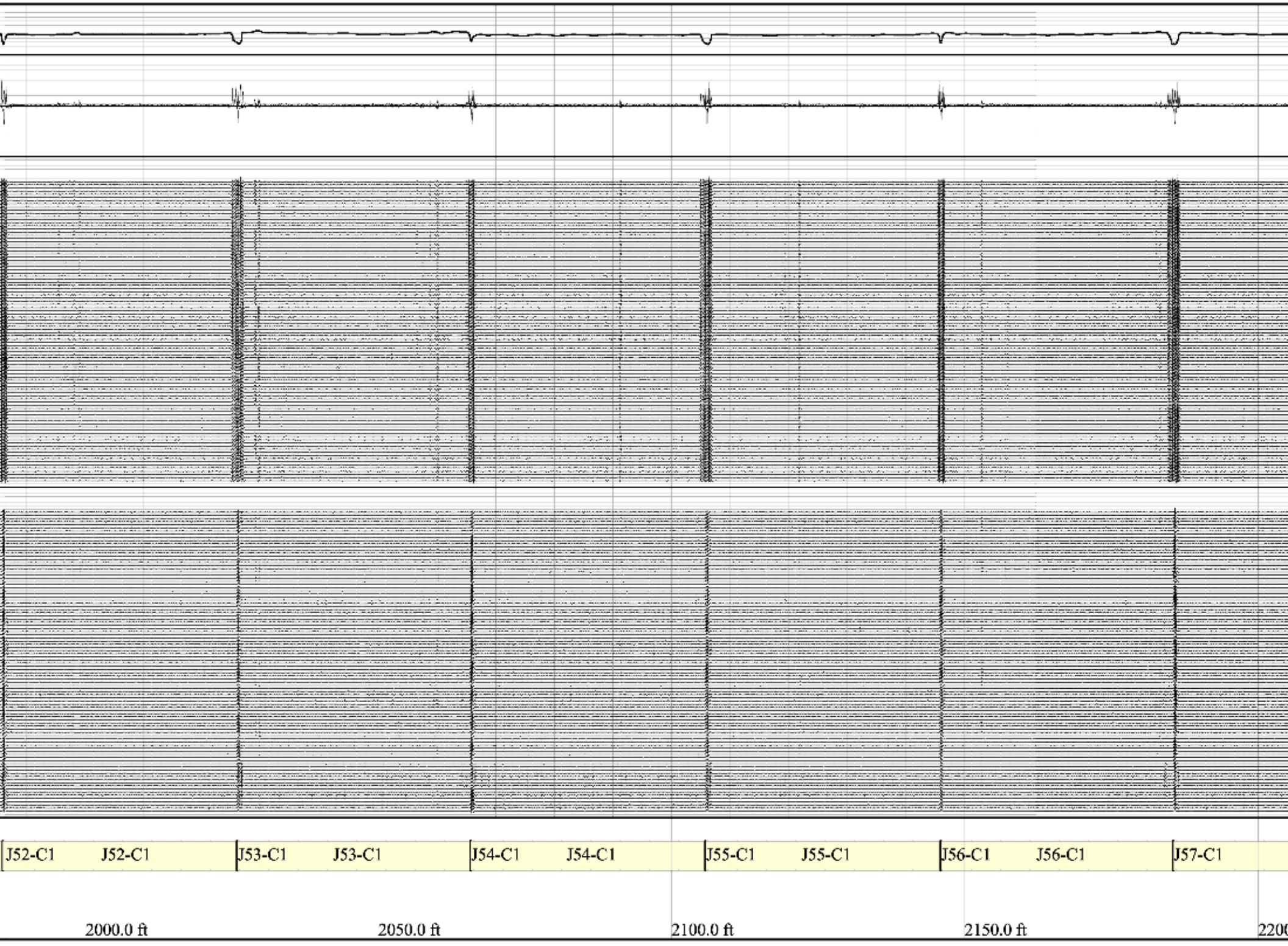
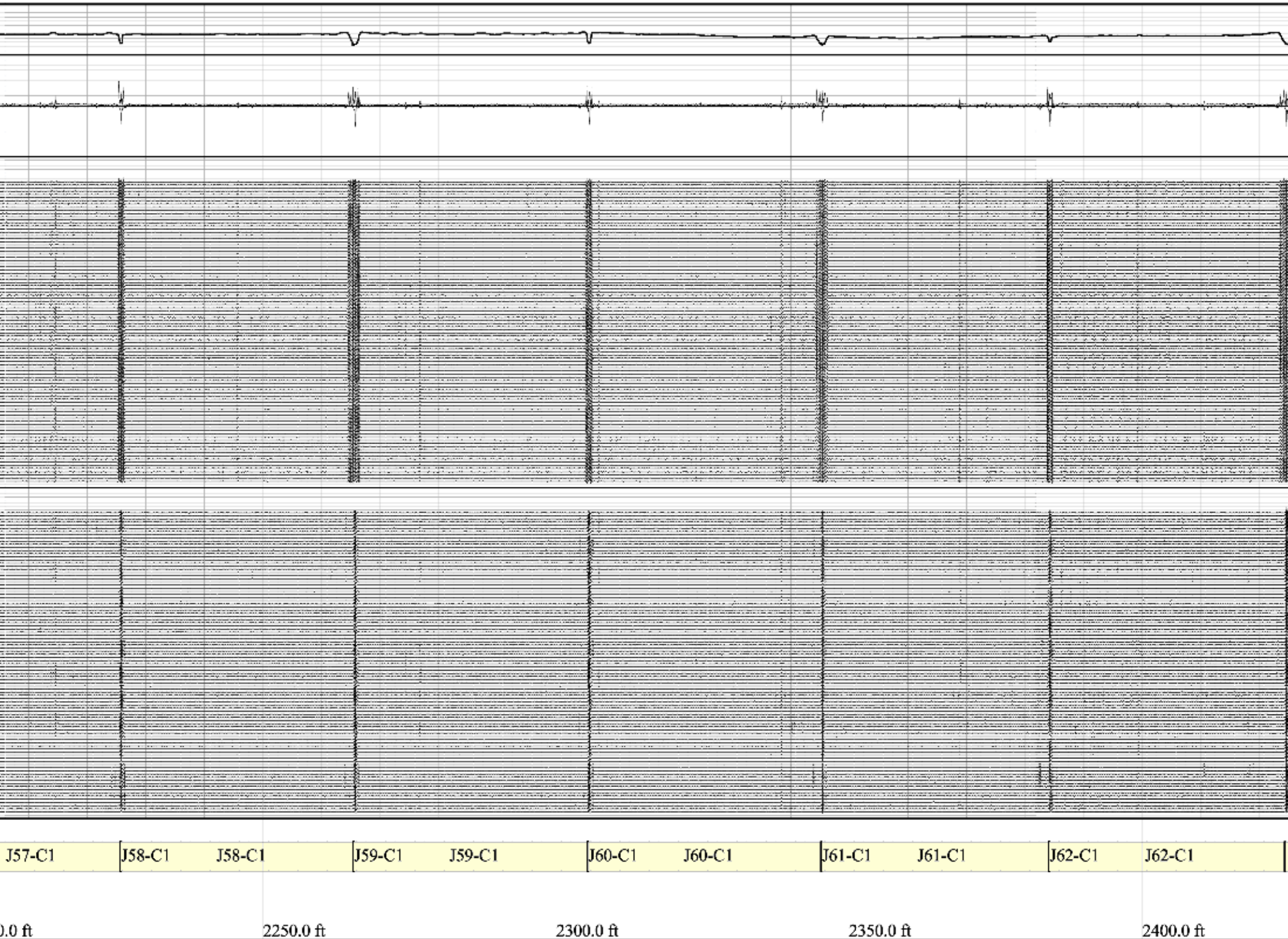
J36-C1
J37-C1
J37-C1
J38-C1
J38-C1
J39-C1
J39-C1
J40-C1
1350.0 ft
1400.0 ft
1450.0 ft
1500.0 ft


J41-C1
J41-C1
J42-C1
J42-C1
J43-C1
J43-C1
J44-C1
J44-C1
J45-C1
J45-C1
1550.0 ft
1600.0 ft
1650.0 ft
1700.0 ft
1750.0 ft


J46-C1
J47-C1
J47-C1
J48-C1
J48-C1
J49-C1
J49-C1
J50-C1
J50-C1
J51-C1
J51-C1
1800.0 ft
1850.0 ft
1900.0 ft
1950.0 ft


J52-C1
J52-C1
J53-C1
J53-C1
J54-C1
J54-C1
J55-C1
J55-C1
J56-C1
J56-C1
J57-C1
2000.0 ft
2050.0 ft
2100.0 ft
2150.0 ft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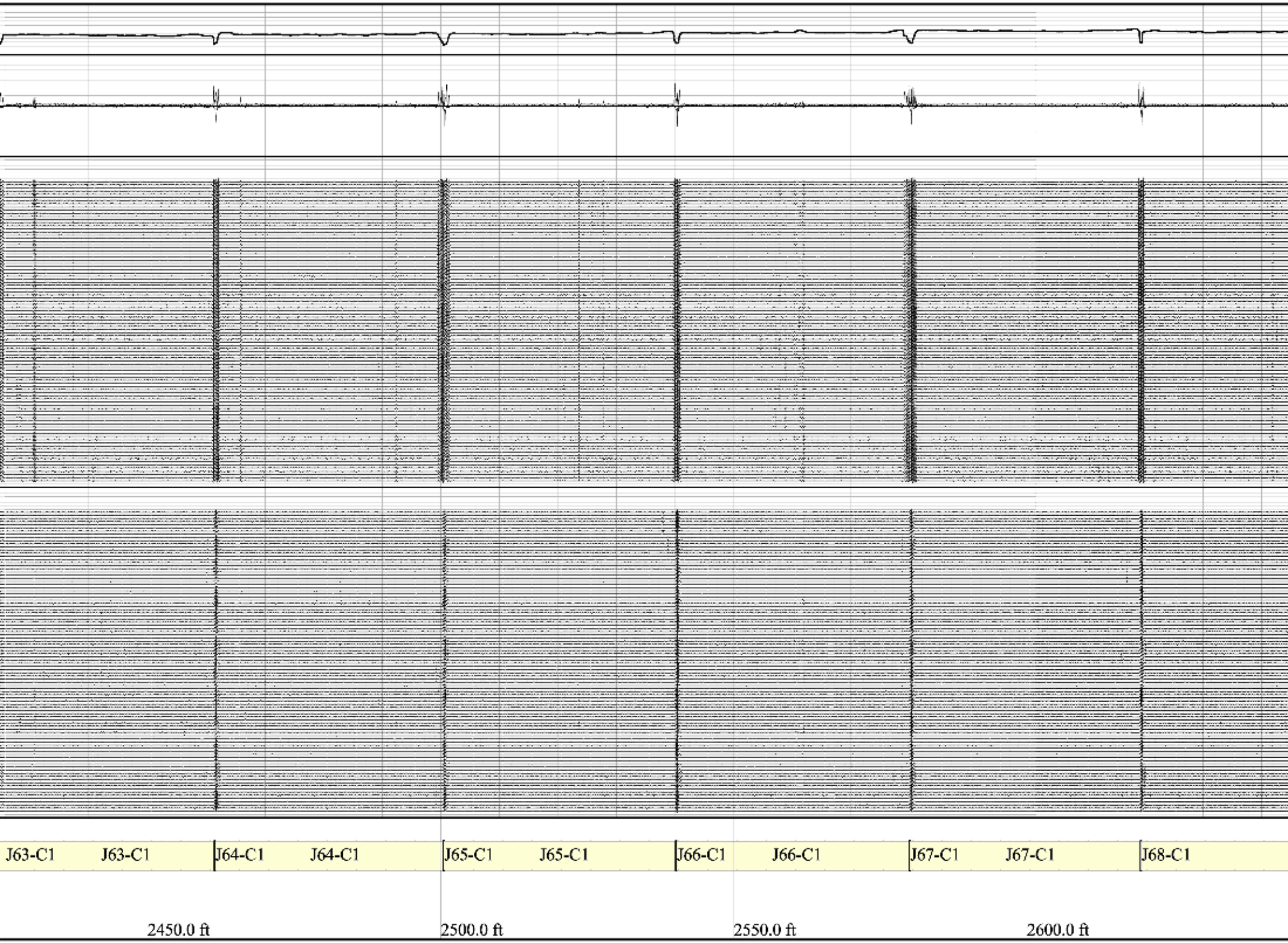
J58-C1
J59-C1
J59-C1
J60-C1
J60-C1
J61-C1
J61-C1
J62-C1
J62-C1
0.0 ft
2250.0 ft
2300.0 ft
2350.0 ft
2400.0 ft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J65-C1
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J66-C1
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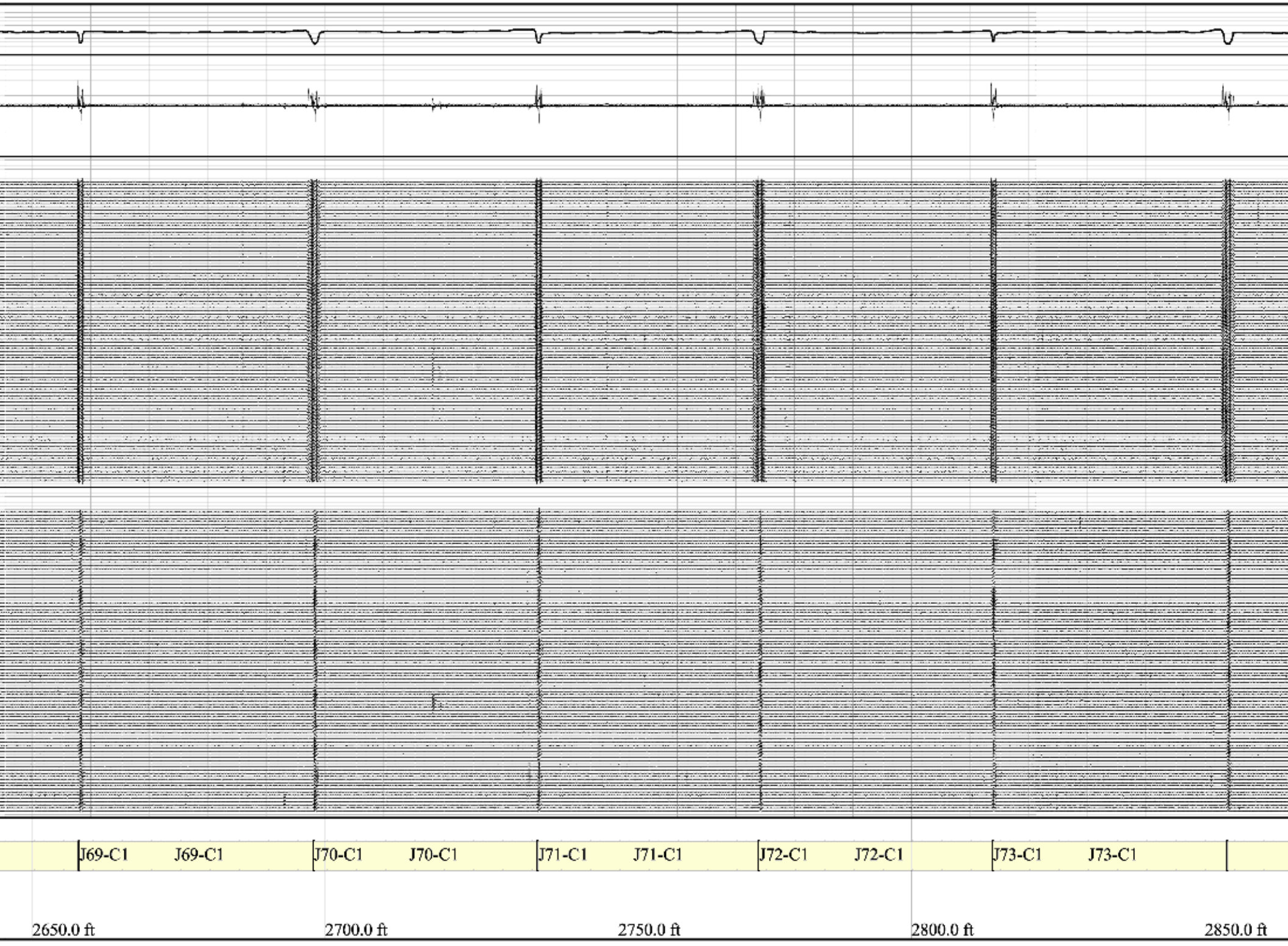
2500.0 ft
2550.0 ft
2600.0 ft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J70-C1
J70-C1
J71-C1
J71-C1
J72-C1
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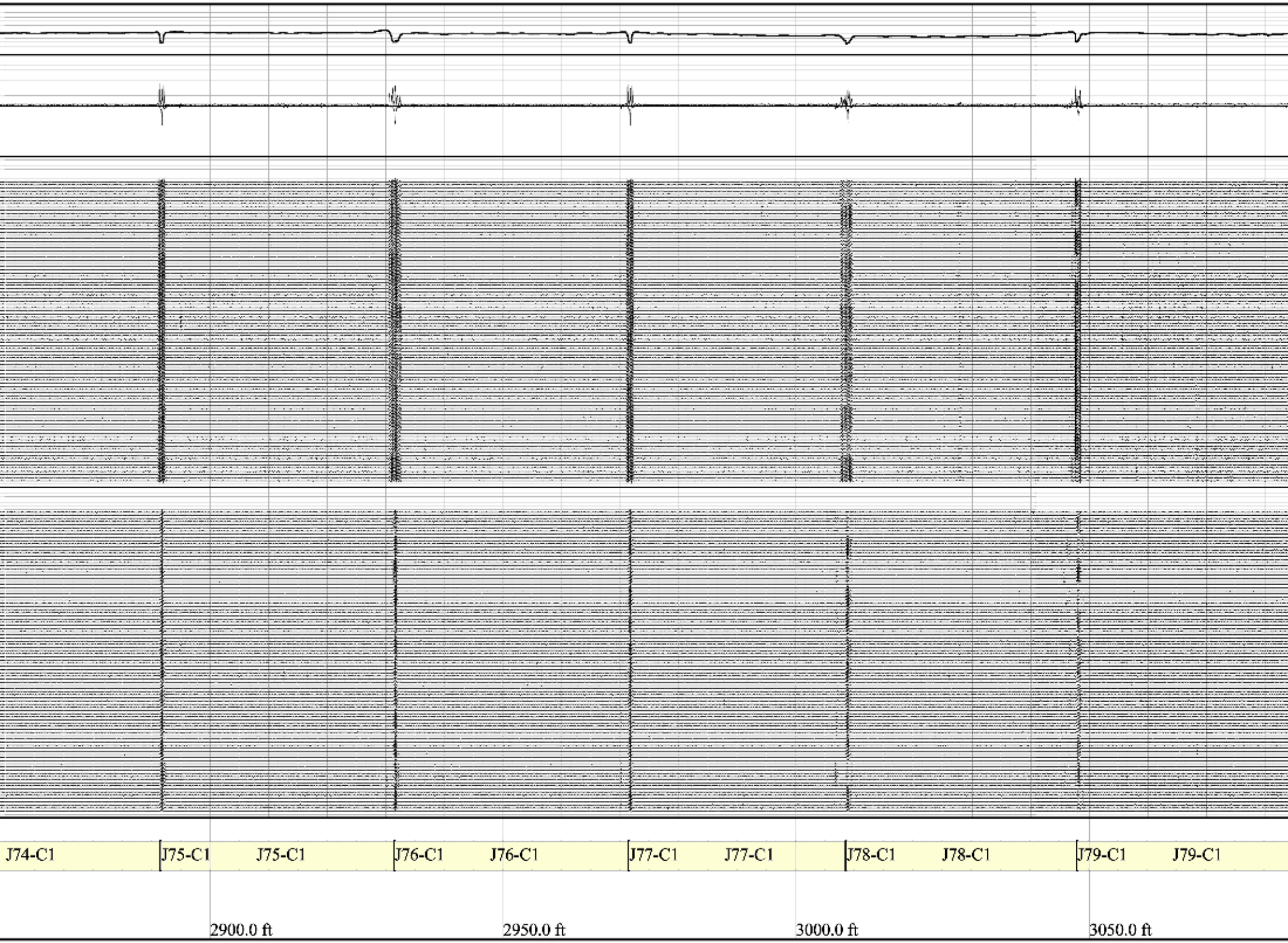
J73-C1
J73-C1
2650.0 ft
2700.0 ft
2750.0 ft
2800.0 ft
2850.0 ft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J75-C1
J75-C1
J76-C1
J76-C1
J77-C1
J77-C1
J78-C1
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J79-C1
J79-C1
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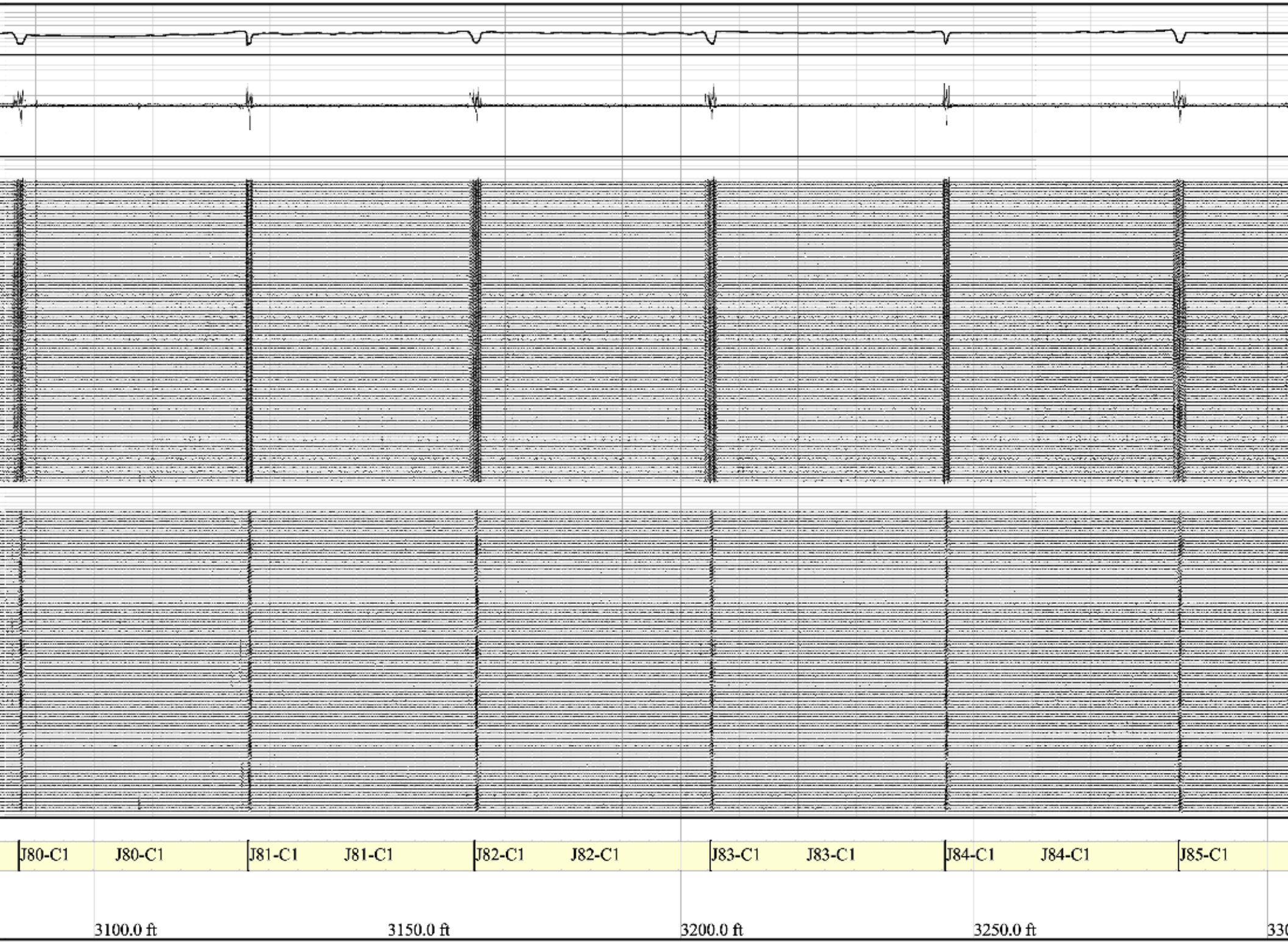
2950.0 ft
3000.0 ft
3050.0 ft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J80-C1
J81-C1
J81-C1
J82-C1
J82-C1
J83-C1
J83-C1
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J84-C1
J85-C1
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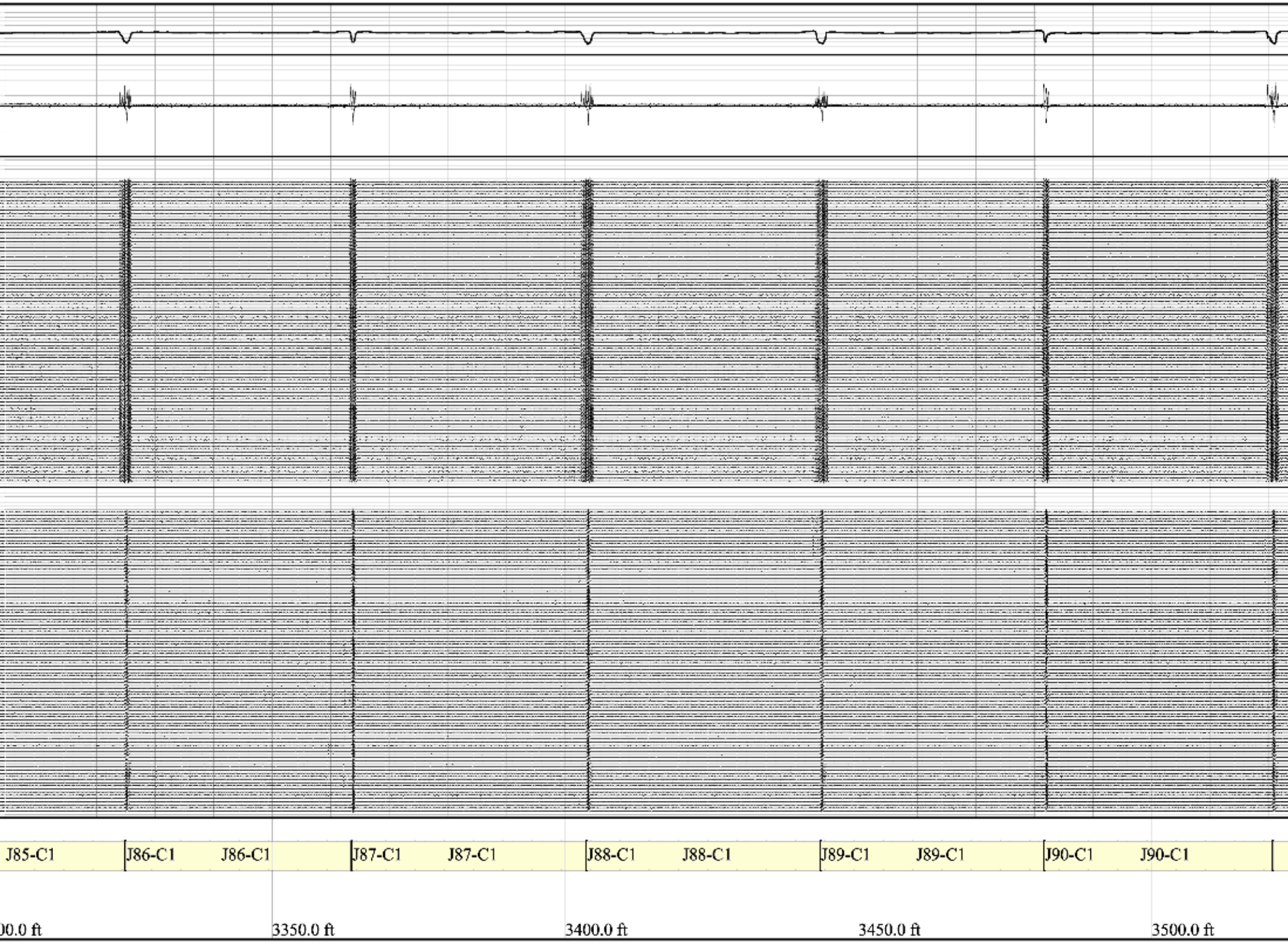
3150.0 ft
3200.0 ft
3250.0 ft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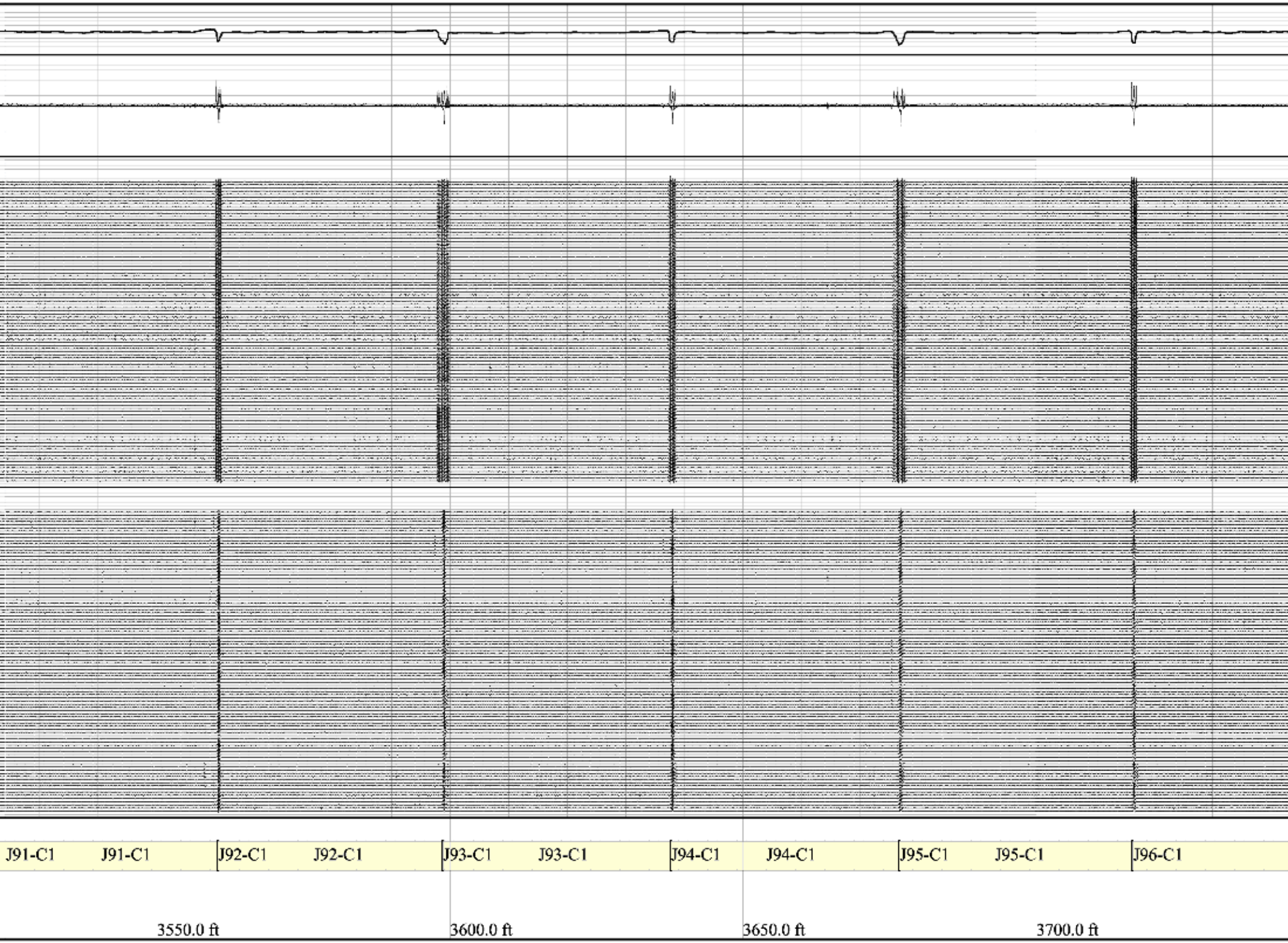
J86-C1
J86-C1
J87-C1
J87-C1
J88-C1
J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
00.0 ft
3350.0 ft
3400.0 ft
3450.0 ft
3500.0 ft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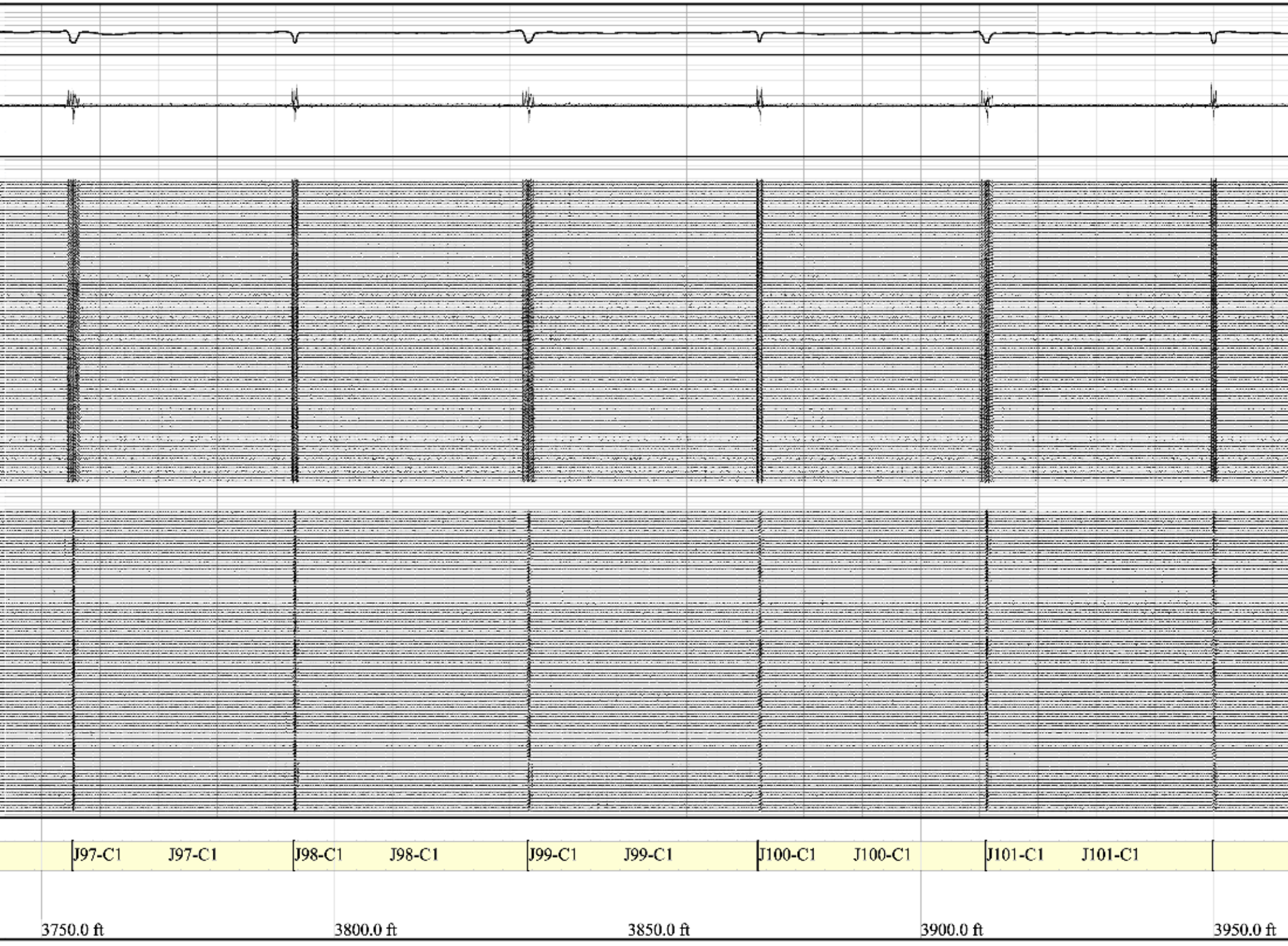
J92-C1
J92-C1
J93-C1
J93-C1
J94-C1
J94-C1
J95-C1
J95-C1
J96-C1
3550.0 ft
3600.0 ft
3650.0 ft
3700.0 ft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J98-C1
J98-C1
J99-C1
J99-C1
J100-C1
J100-C1
J101-C1
J101-C1
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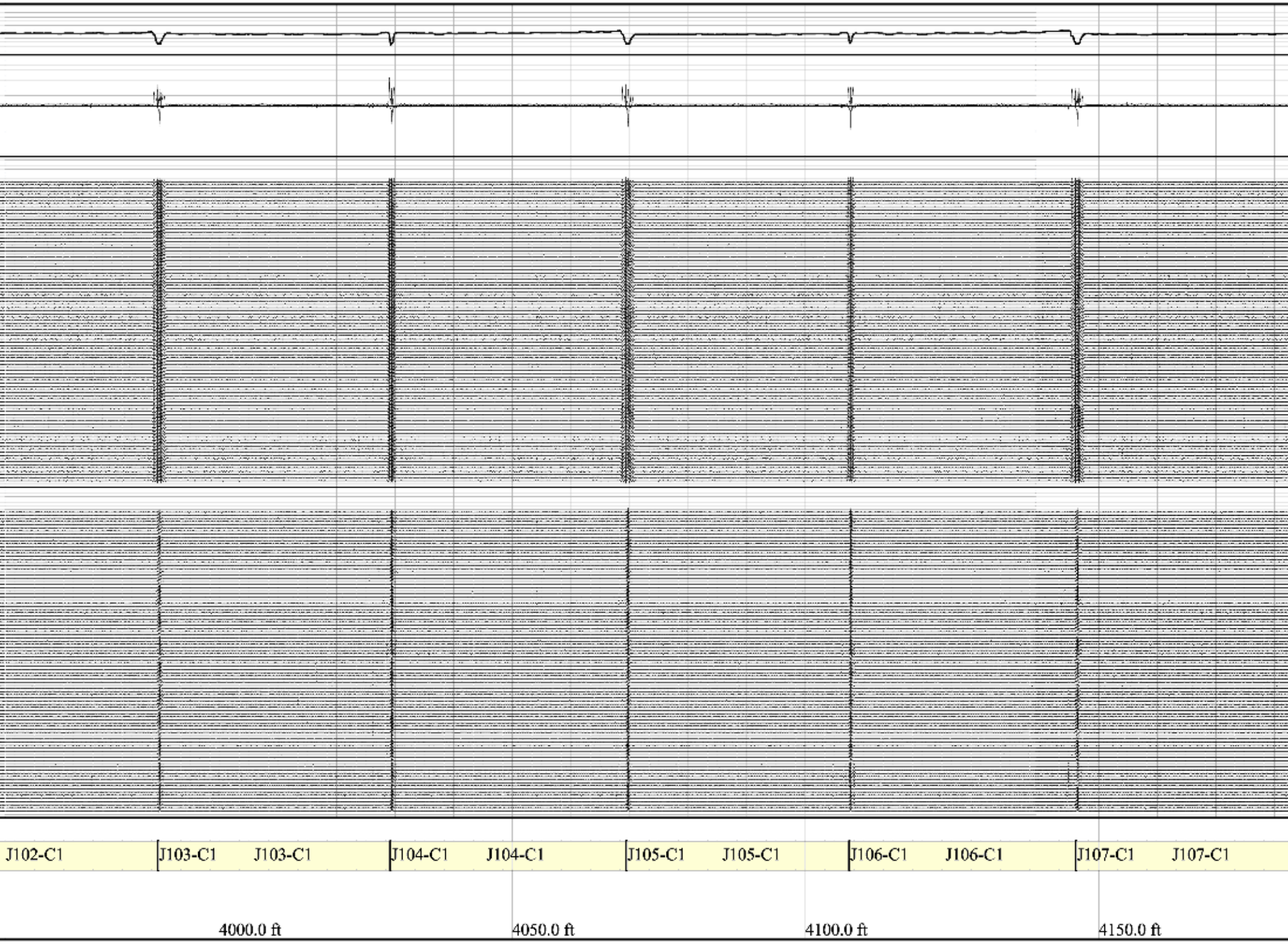
3900.0 ft
3950.0 ft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J103-C1
J103-C1
J104-C1
J104-C1
J105-C1
J105-C1
J106-C1
J106-C1
J107-C1
J107-C1
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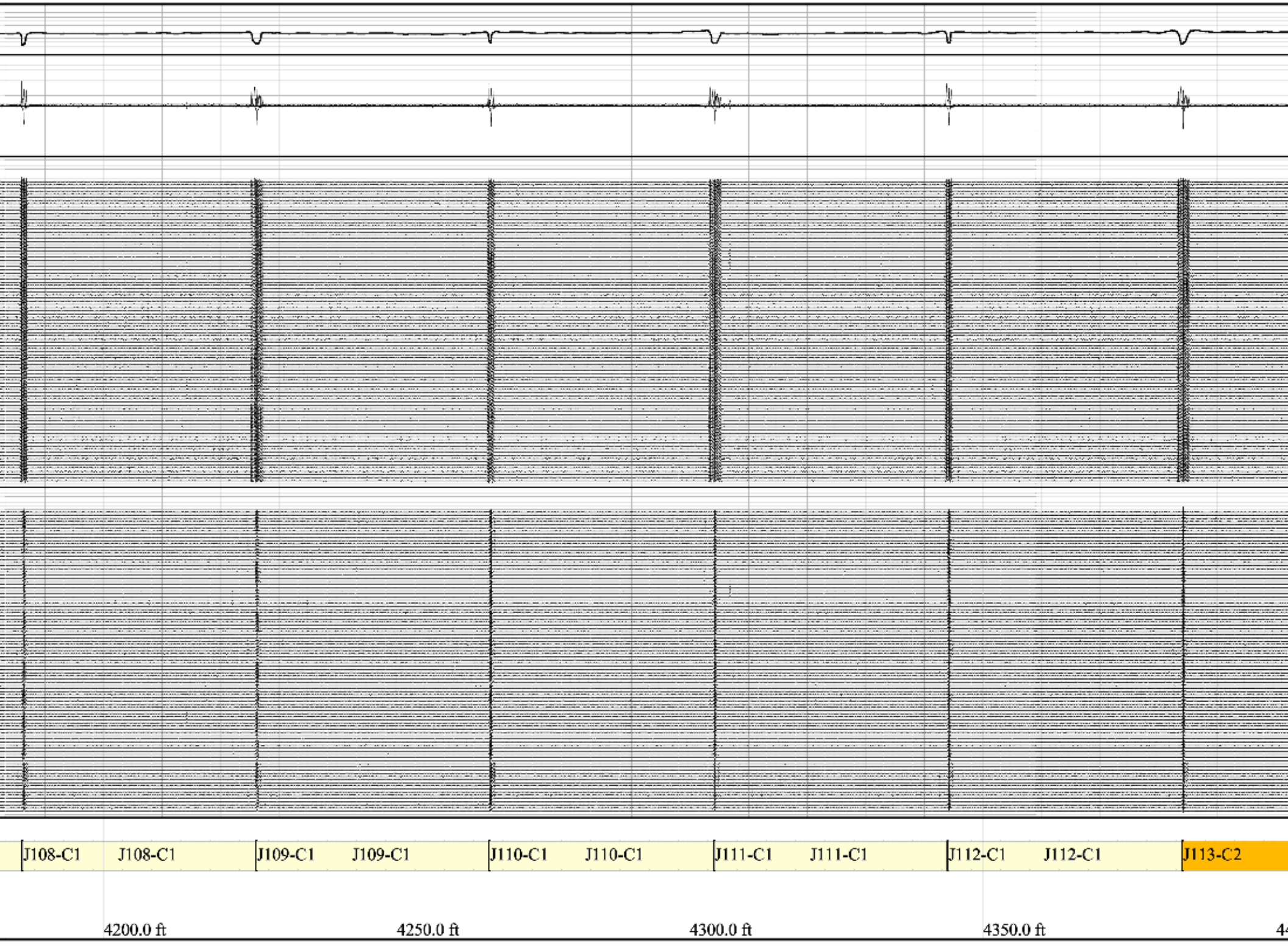
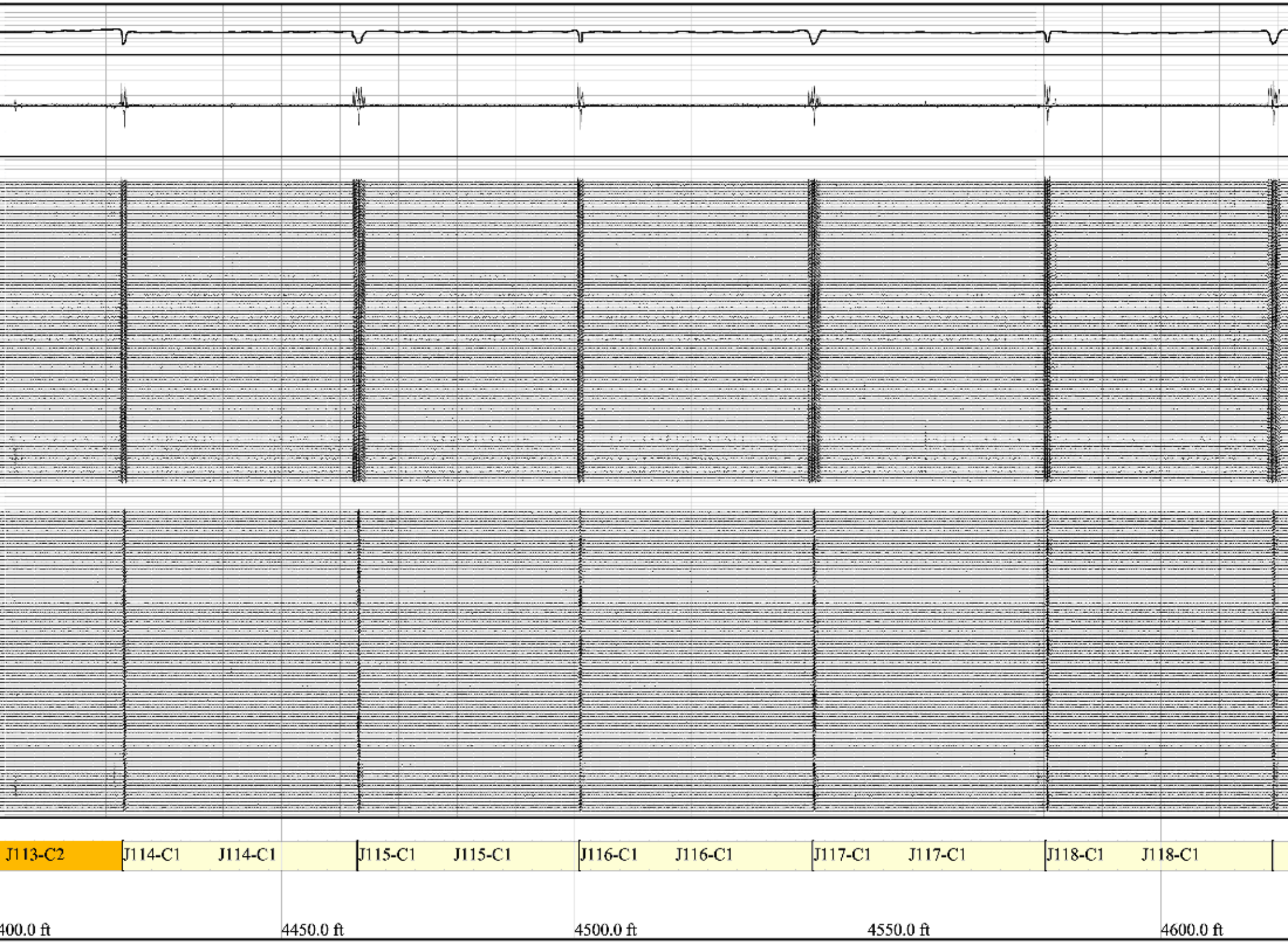
4050.0 ft
4100.0 ft
4150.0 ft


J108-C1
J108-C1
J109-C1
J109-C1
J110-C1
J110-C1
J111-C1
J111-C1
J112-C1
J112-C1
J113-C2
4200.0 ft
4250.0 ft
4300.0 ft
4350.0 ft


J113-C2
J114-C1
J114-C1
J115-C1
J115-C1
J116-C1
J116-C1
J117-C1
J117-C1
J118-C1
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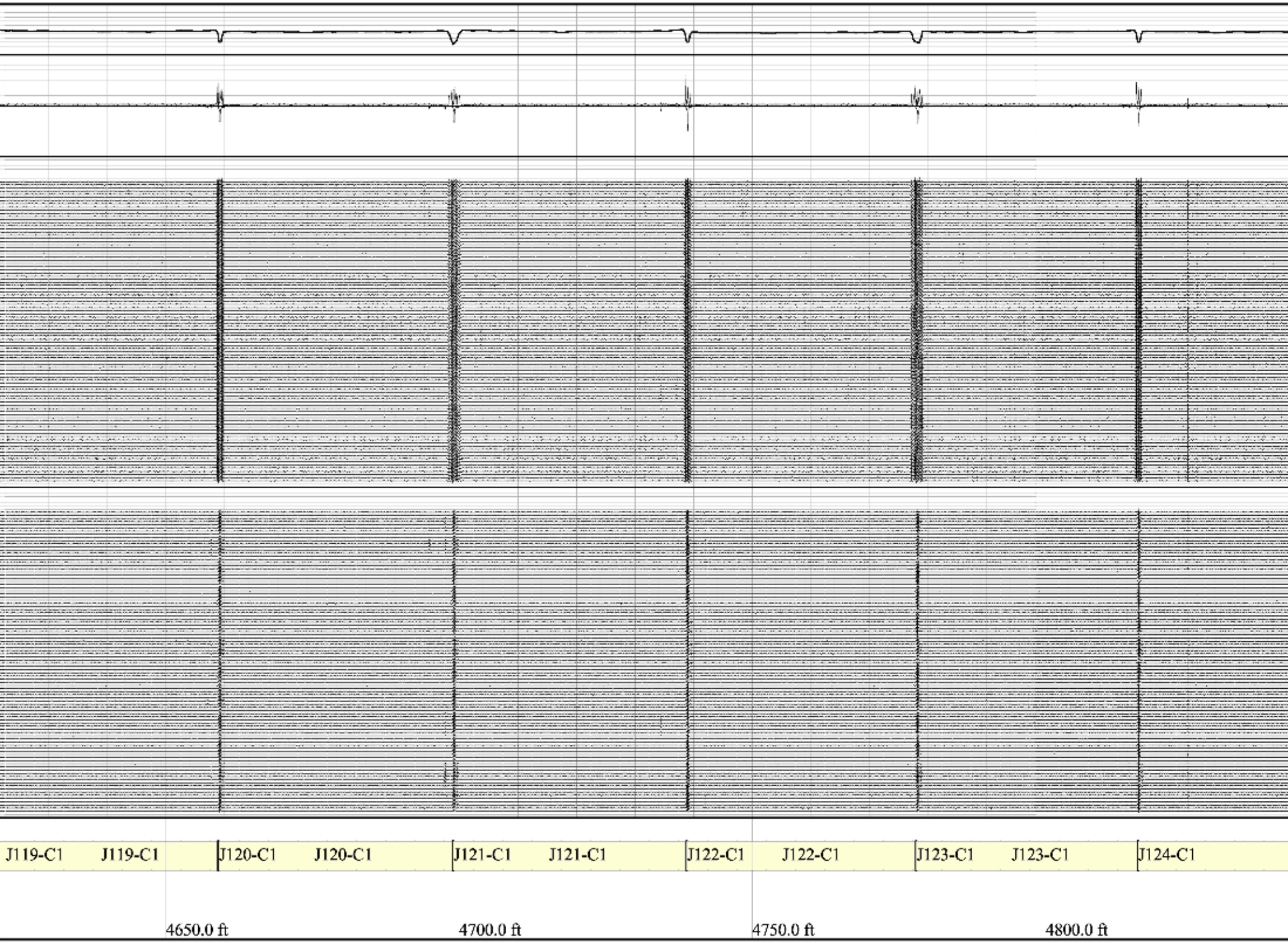
4550.0 ft
4600.0 ft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J120-C1
J120-C1
J121-C1
J121-C1
J122-C1
J122-C1
J123-C1
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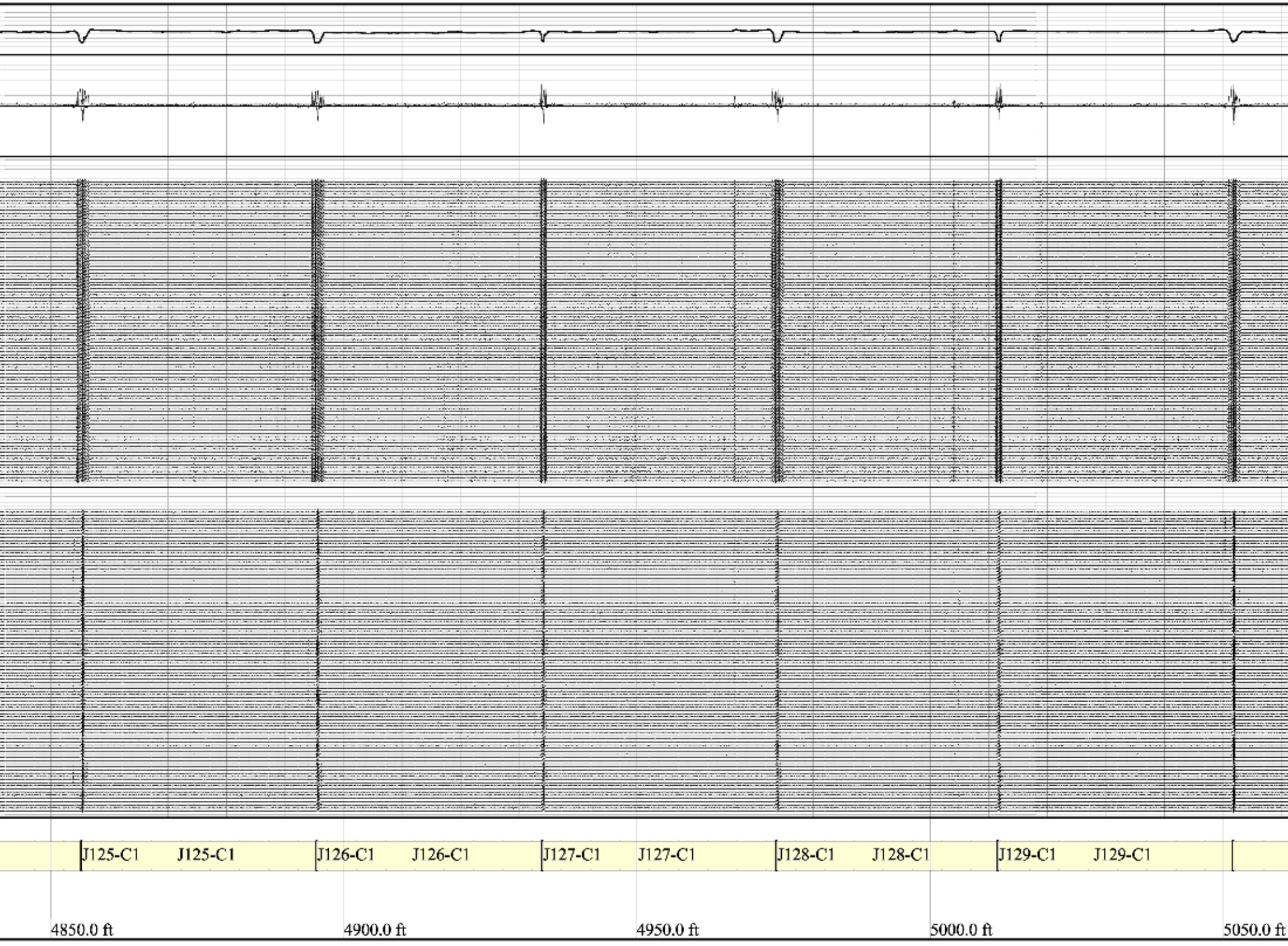
4750.0 ft
4800.0 ft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J126-C1
J126-C1
J127-C1
J127-C1
J128-C1
J128-C1
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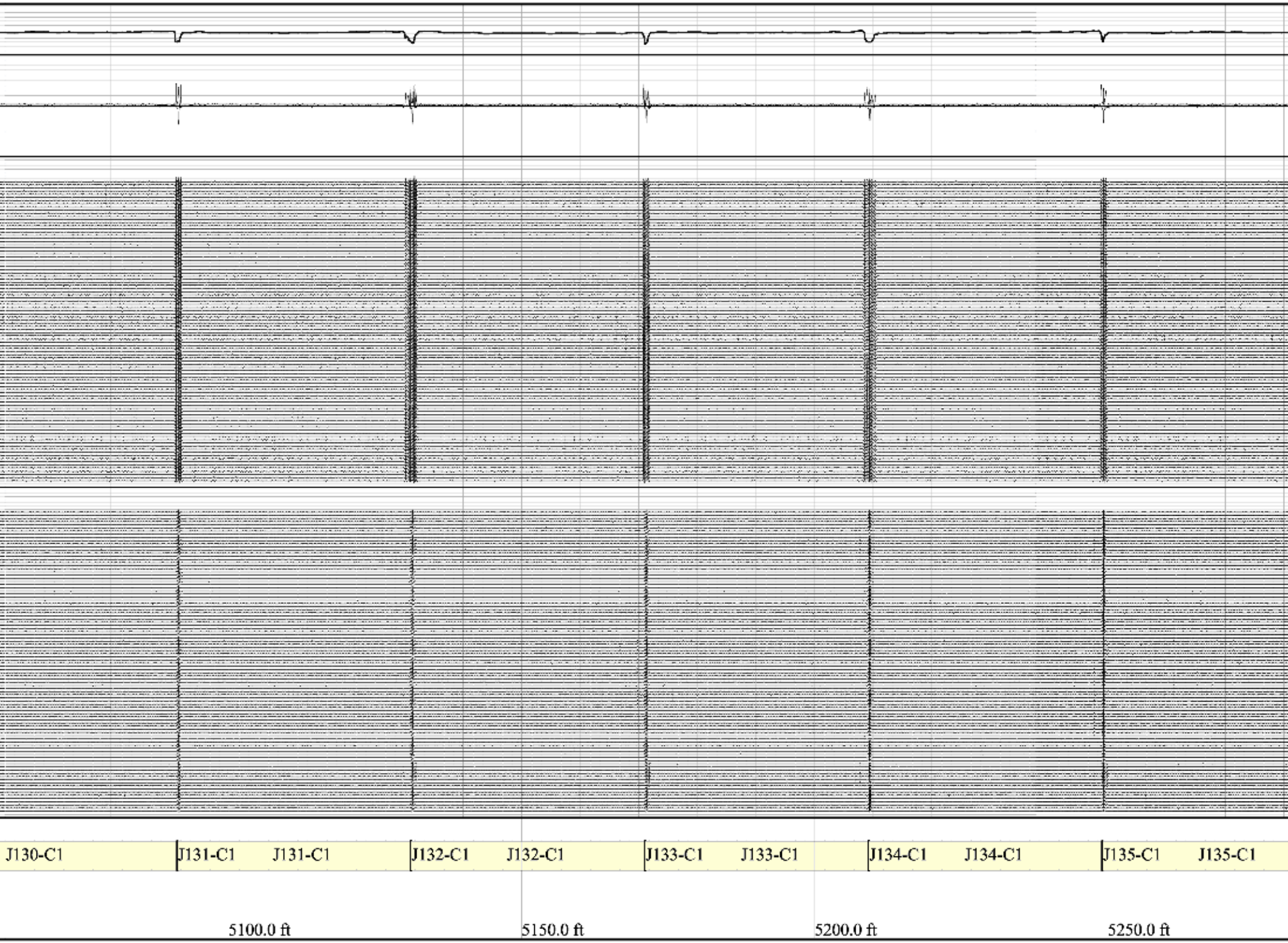
4950.0 ft
5000.0 ft
5050.0 ft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J131-C1
J131-C1
J132-C1
J132-C1
J133-C1
J133-C1
J134-C1
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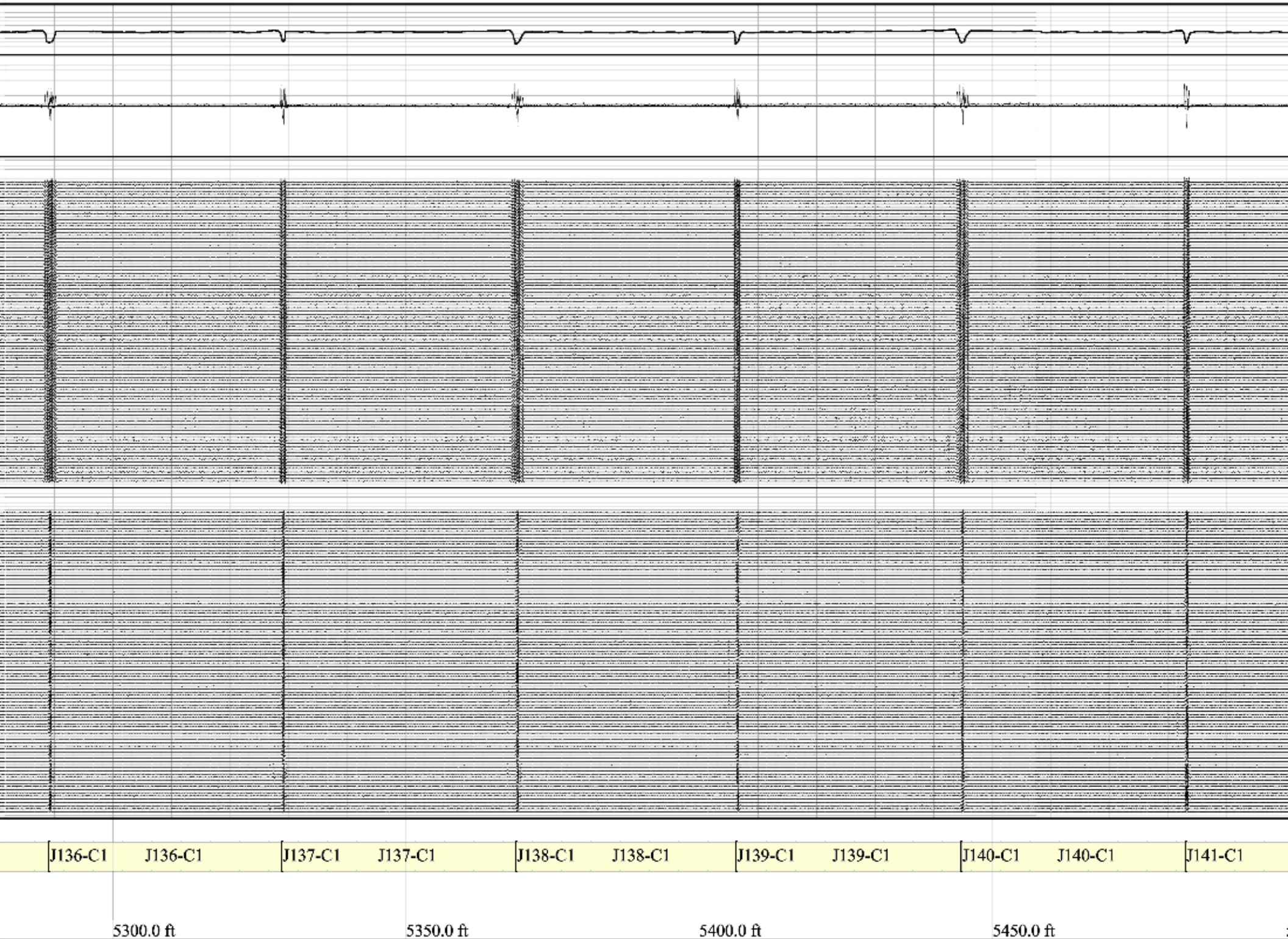
5200.0 ft
5250.0 ft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J137-C1
J137-C1
J138-C1
J138-C1
J139-C1
J139-C1
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J140-C1
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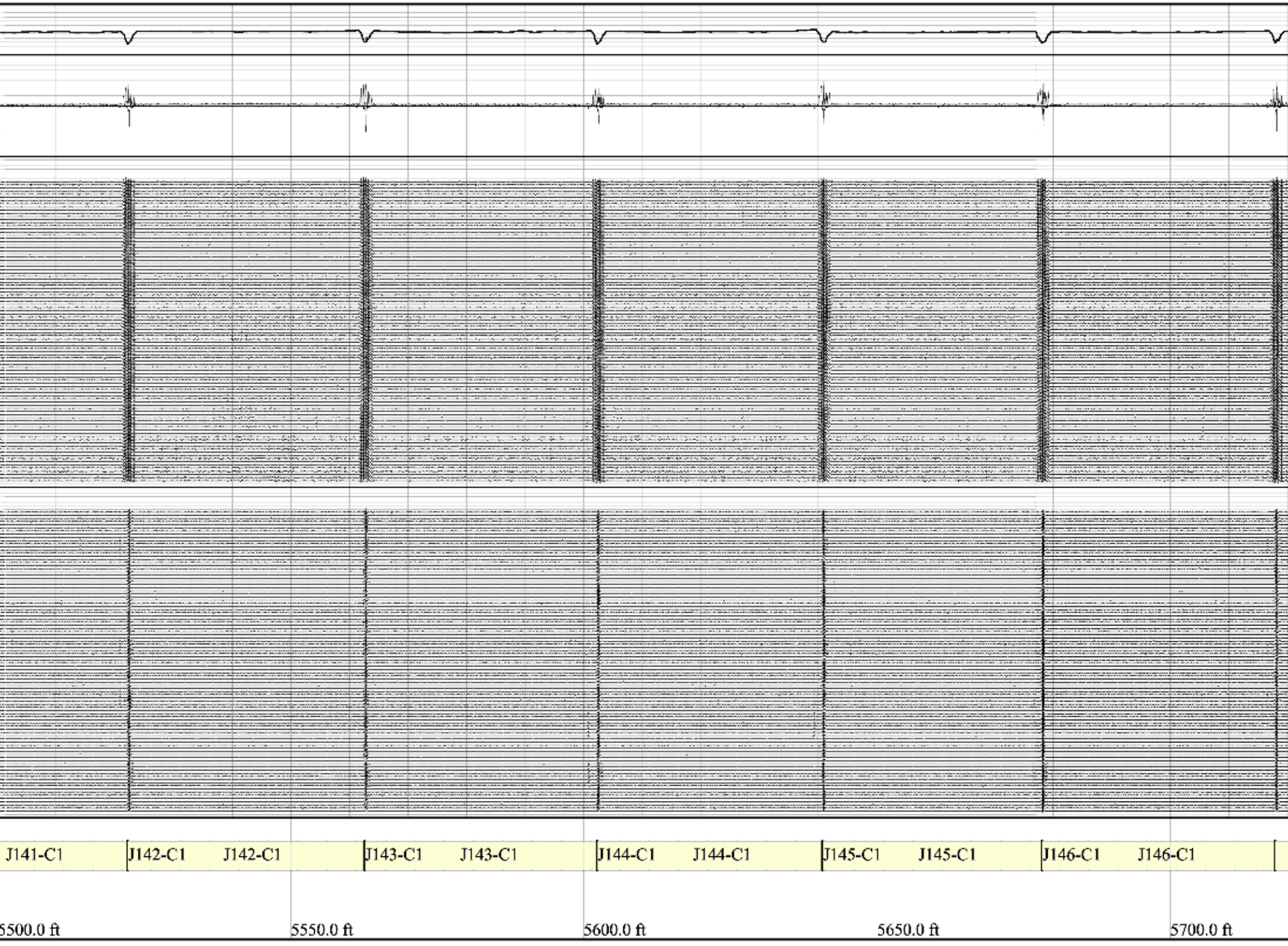
5400.0 ft
5450.0 ft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J142-C1
J143-C1
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J144-C1
J144-C1
J145-C1
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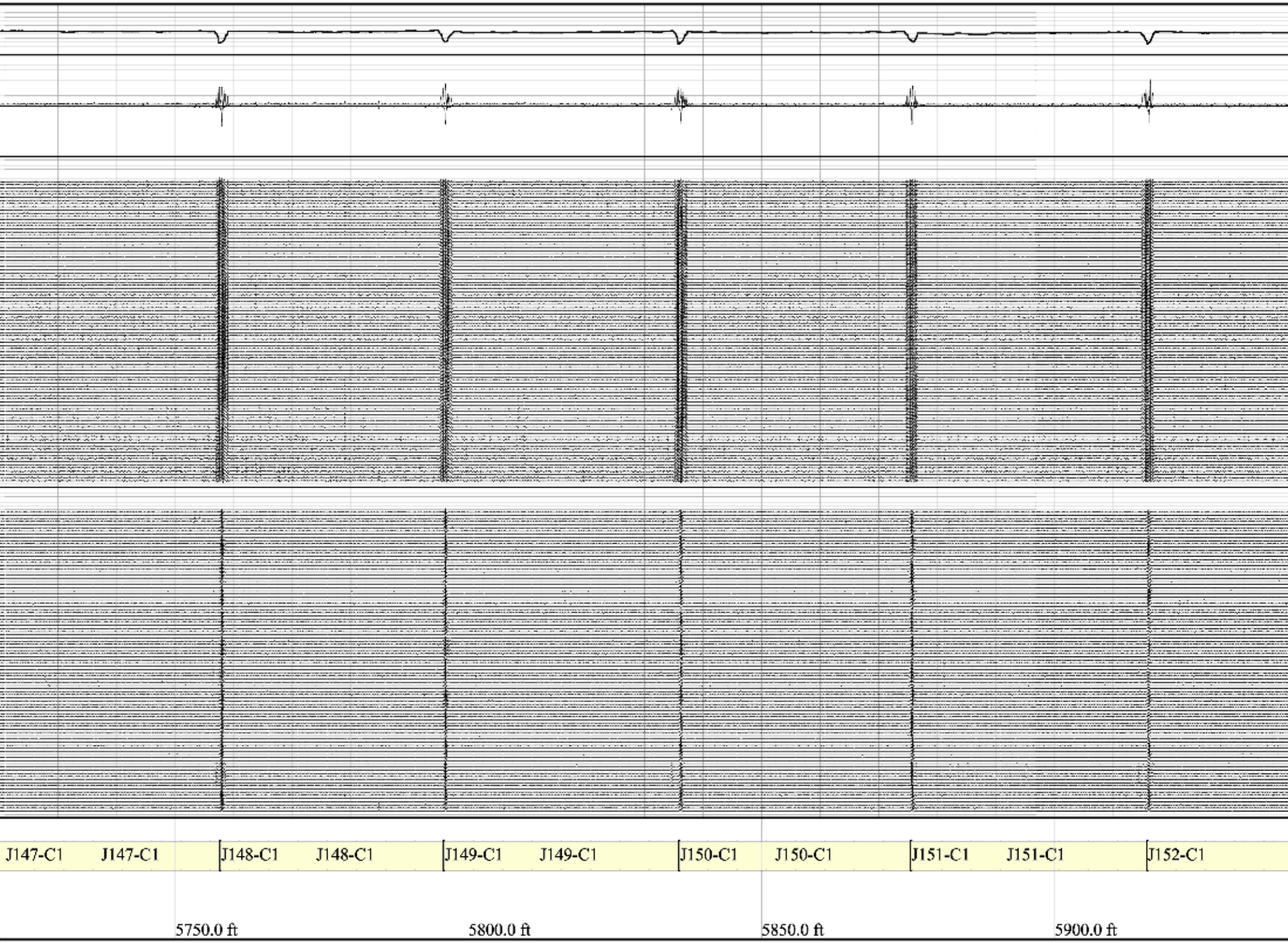
5650.0 ft
5700.0 ft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J148-C1
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J149-C1
J149-C1
J150-C1
J150-C1
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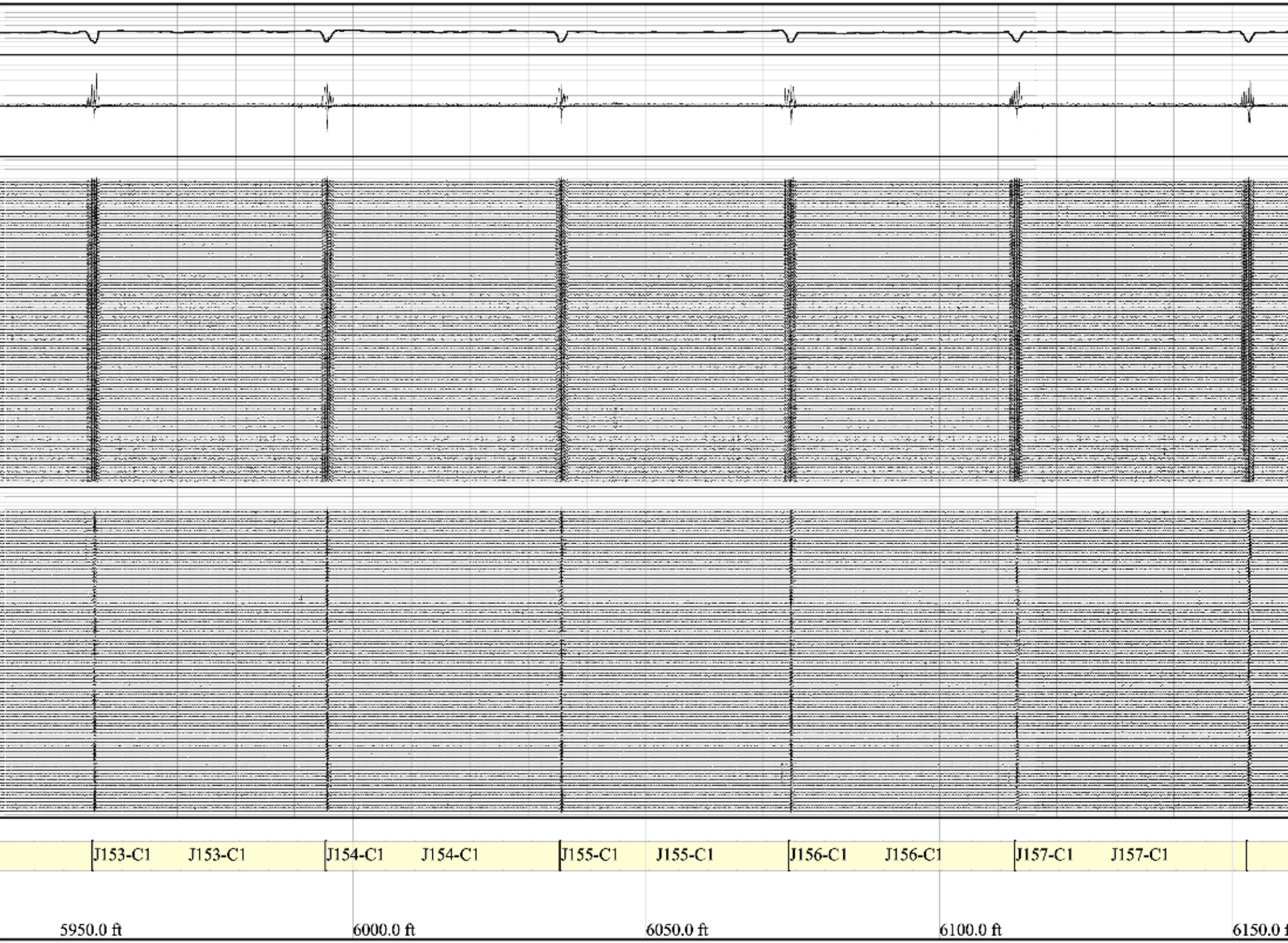
5850.0 ft
5900.0 ft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J153-C1
J154-C1
J154-C1
J155-C1
J155-C1
J156-C1
J156-C1
J157-C1
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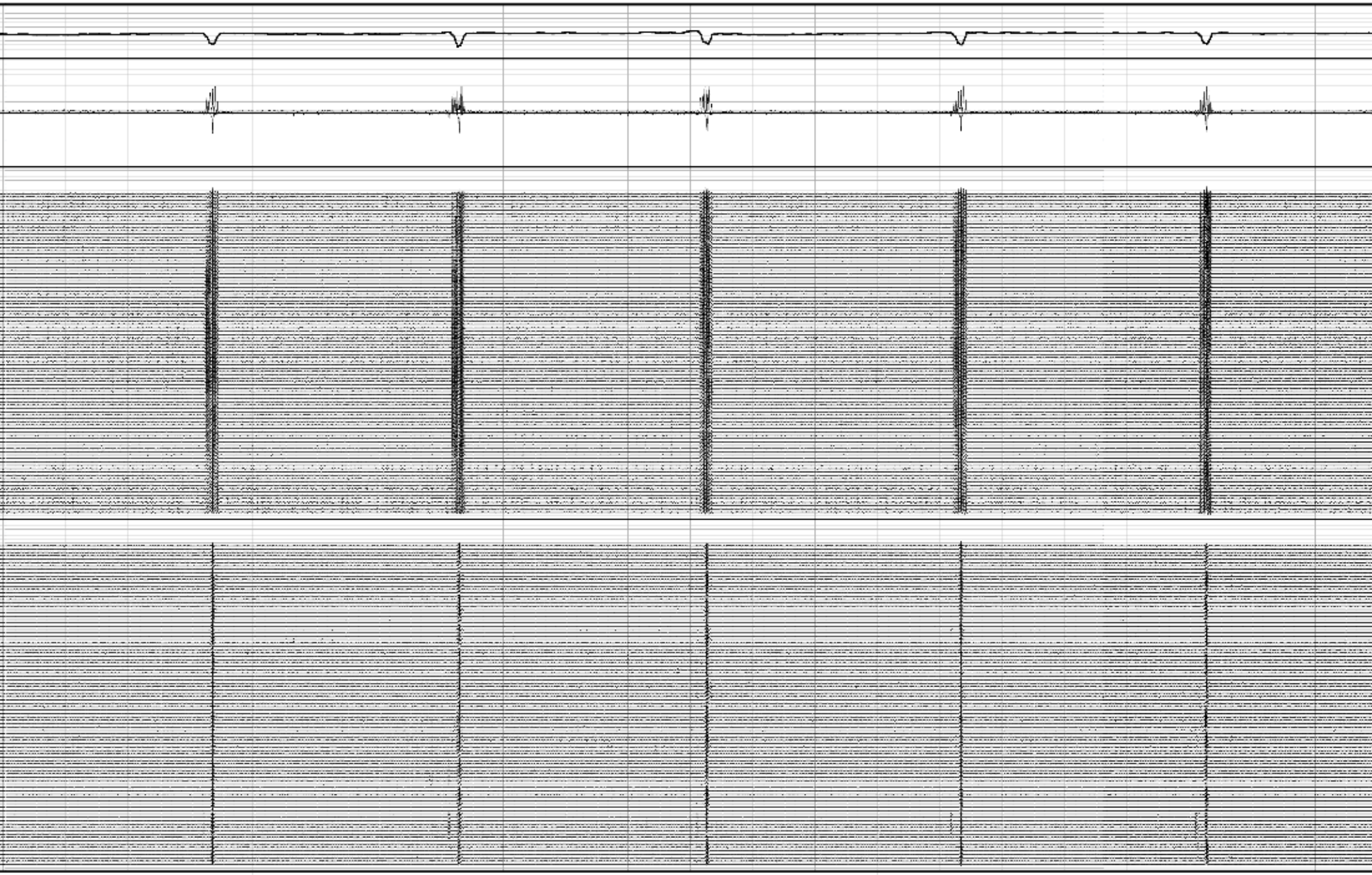
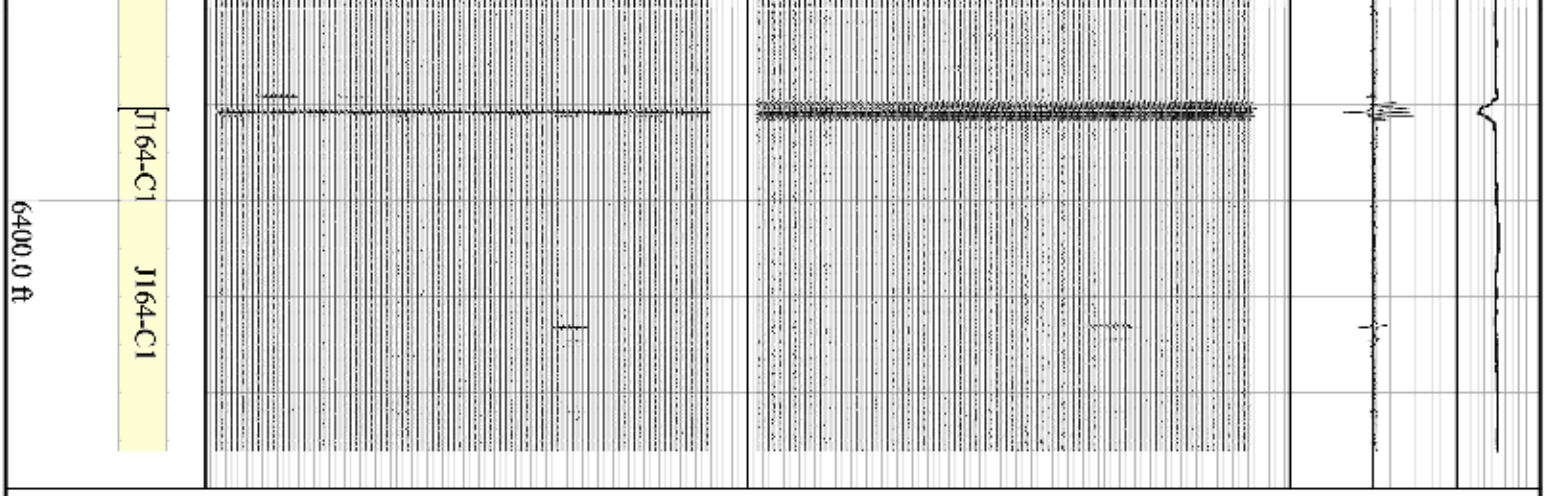
6000.0 ft
6050.0 ft
6100.0 ft



J158-C1 J158-C1 J159-C1 J159-C1 J160-C1 J160-C1 J161-C1 J161-C1 J162-C1 J162-C1 J163-C1

ft 6200.0 ft 6250.0 ft 6300.0 ft 6350.0 ft



Southern California Gas Company Porter 50C

File 20160317_09511A_RSP_0_0_0_0_0_0.mvl

Joint Summary

Southern California Gas Company
Aliso Canyon
Porter 50C

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	6.58	14.86	9.625	0.472	47.0	0			1
JT-2	21.44	38.60	9.625	0.472	47.0	0			1
JT-3	60.04	38.09	9.625	0.472	47.0	0			1
JT-4	98.14	38.17	9.625	0.472	47.0	0			1
JT-5	136.31	39.00	9.625	0.472	47.0	0			1
JT-6	175.30	38.41	9.625	0.472	47.0	0			1
JT-7	213.71	40.10	9.625	0.472	47.0	0			1
JT-8	253.81	36.81	9.625	0.472	47.0	0			1
JT-9	290.62	39.94	9.625	0.472	47.0	0			1
JT-10	330.56	39.80	9.625	0.472	47.0	0			1
JT-11	370.35	40.18	9.625	0.472	47.0	0			1
JT-12	410.53	39.67	9.625	0.472	47.0	0			1
JT-13	450.21	39.99	9.625	0.472	47.0	0			1
JT-14	490.20	39.24	9.625	0.472	47.0	0			1
JT-15	529.44	38.79	9.625	0.472	47.0	0			1
JT-16	568.23	40.13	9.625	0.472	47.0	0			1
JT-17	608.36	39.80	9.625	0.472	47.0	0			1
JT-18	648.16	39.17	9.625	0.472	47.0	0			1
JT-19	687.33	37.39	9.625	0.472	47.0	15	706.73	8529	1
JT-20	724.72	40.14	9.625	0.472	47.0	0			1
JT-21	764.86	40.01	9.625	0.472	47.0	0			1
JT-22	804.87	40.05	9.625	0.472	47.0	0			1
JT-23	844.92	39.87	9.625	0.472	47.0	22	865.57	8606	2
JT-24	884.80	38.22	9.625	0.472	47.0	0			1
JT-25	923.02	38.54	9.625	0.472	47.0	0			1
JT-26	961.55	39.89	9.625	0.472	47.0	0			1
JT-27	1001.45	39.82	9.625	0.472	47.0	0			1
JT-28	1041.26	38.65	9.625	0.472	47.0	0			1
JT-29	1079.91	39.97	9.625	0.472	47.0	0			1
JT-30	1119.89	39.84	9.625	0.472	47.0	0			1
JT-31	1159.72	38.15	9.625	0.472	47.0	0			1
JT-32	1197.87	39.95	9.625	0.472	47.0	0			1
JT-33	1237.82	40.11	9.625	0.472	47.0	0			1
JT-34	1277.93	39.91	9.625	0.472	47.0	0			1
JT-35	1317.83	40.00	9.625	0.472	47.0	0			1
JT-36	1357.84	39.90	9.625	0.472	47.0	0			1
JT-37	1397.74	39.96	9.625	0.472	47.0	0			1
JT-38	1437.70	39.89	9.625	0.472	47.0	0			1
JT-39	1477.59	40.01	9.625	0.472	47.0	0			1
JT-40	1517.60	39.89	9.625	0.472	47.0	0			1
JT-41	1557.49	39.84	9.625	0.472	47.0	0			1
JT-42	1597.33	37.97	9.625	0.472	47.0	0			1
JT-43	1635.29	40.13	9.625	0.472	47.0	0			1

JT-43	1635.29	40.19	9.625	0.472	47.0	0			1
JT-44	1675.42	39.92	9.625	0.472	47.0	0			1
JT-45	1715.34	39.72	9.625	0.472	47.0	0			1
JT-46	1755.06	38.78	9.625	0.472	47.0	0			1
JT-47	1793.84	38.00	9.625	0.472	47.0	0			1
JT-48	1831.84	38.61	9.625	0.472	47.0	0			1
JT-49	1870.45	38.19	9.625	0.472	47.0	0			1
JT-50	1908.64	38.37	9.625	0.472	47.0	0			1
JT-51	1947.01	38.96	9.625	0.472	47.0	0			1
JT-52	1985.97	39.98	9.625	0.472	47.0	0			1
JT-53	2025.95	39.81	9.625	0.472	47.0	0			1
JT-54	2065.75	40.08	9.625	0.472	47.0	0			1
JT-55	2105.84	40.10	9.625	0.472	47.0	0			1
JT-56	2145.93	39.71	9.625	0.472	47.0	0			1
JT-57	2185.64	40.06	9.625	0.472	47.0	0			1
JT-58	2225.70	39.76	9.625	0.472	47.0	0			1
JT-59	2265.46	40.00	9.625	0.472	47.0	0			1
JT-60	2305.46	39.82	9.625	0.472	47.0	0			1
JT-61	2345.28	38.84	9.625	0.472	47.0	0			1
JT-62	2384.11	40.27	9.625	0.472	47.0	0			1
JT-63	2424.38	37.14	9.625	0.472	47.0	0			1
JT-64	2461.52	38.98	9.625	0.472	47.0	0			1
JT-65	2500.51	39.71	9.625	0.472	47.0	0			1
JT-66	2540.22	39.82	9.625	0.472	47.0	0			1
JT-67	2580.03	39.41	9.625	0.472	47.0	0			1
JT-68	2619.44	38.57	9.625	0.472	47.0	0			1
JT-69	2658.02	39.98	9.625	0.472	47.0	0			1
JT-70	2698.00	38.23	9.625	0.472	47.0	16	2718.20	8616	1
JT-71	2736.23	37.73	9.625	0.472	47.0	0			1
JT-72	2773.96	39.91	9.625	0.472	47.0	0			1
JT-73	2813.87	40.04	9.625	0.472	47.0	0			1
JT-74	2853.91	37.74	9.625	0.472	47.0	0			1
JT-75	2891.66	39.84	9.625	0.472	47.0	0			1
JT-76	2931.50	40.01	9.625	0.472	47.0	0			1
JT-77	2971.51	37.05	9.625	0.472	47.0	0			1
JT-78	3008.56	39.36	9.625	0.472	47.0	0			1
JT-79	3047.92	39.32	9.625	0.472	47.0	0			1
JT-80	3087.24	39.05	9.625	0.472	47.0	0			1
JT-81	3126.28	38.64	9.625	0.472	47.0	0			1
JT-82	3164.93	40.21	9.625	0.472	47.0	0			1
JT-83	3205.14	40.03	9.625	0.472	47.0	0			1
JT-84	3245.16	39.84	9.625	0.472	47.0	0			1
JT-85	3285.00	39.99	9.625	0.472	47.0	0			1
JT-86	3324.99	38.63	9.625	0.472	47.0	0			1
JT-87	3363.62	40.04	9.625	0.472	47.0	0			1
JT-88	3403.67	39.90	9.625	0.472	47.0	0			1
JT-89	3443.57	38.18	9.625	0.472	47.0	0			1
JT-90	3481.75	38.96	9.625	0.472	47.0	0			1
JT-91	3520.71	39.70	9.625	0.472	47.0	0			1
JT-92	3560.41	38.38	9.625	0.472	47.0	0			1
JT-93	3598.79	38.90	9.625	0.472	47.0	0			1
JT-94	3637.69	38.99	9.625	0.472	47.0	0			1
JT-95	3676.68	39.79	9.625	0.472	47.0	0			1
JT-96	3716.47	38.89	9.625	0.472	47.0	0			1
JT-97	3755.36	37.72	9.625	0.472	47.0	0			1
JT-98	3793.08	39.93	9.625	0.472	47.0	0			1
JT-99	3833.02	39.27	9.625	0.472	47.0	0			1
JT-100	3872.29	38.85	9.625	0.472	47.0	0			1
JT-101	3911.13	38.67	9.625	0.472	47.0	0			1
JT-102	3949.80	39.83	9.625	0.472	47.0	0			1
JT-103	3989.63	39.67	9.625	0.472	47.0	0			1
JT-104	4029.30	40.26	9.625	0.472	47.0	0			1
JT-105	4069.56	38.02	9.625	0.472	47.0	0			1
JT-106	4107.58	38.67	9.625	0.472	47.0	0			1
JT-107	4146.25	39.94	9.625	0.472	47.0	0			1
JT-108	4186.19	39.86	9.625	0.472	47.0	0			1
JT-109	4226.05	39.72	9.625	0.472	47.0	0			1
JT-110	4265.77	38.44	9.625	0.472	47.0	0			1
JT-111	4304.21	39.80	9.625	0.472	47.0	0			1
JT-112	4344.01	40.05	9.625	0.472	47.0	0			1
JT-113	4384.06	38.92	9.625	0.472	47.0	24	4404.44	8455	2
JT-114	4422.98	40.09	9.625	0.472	47.0	0			1
JT-115	4463.07	37.78	9.625	0.472	47.0	0			1
JT-116	4500.85	39.85	9.625	0.472	47.0	0			1
JT-117	4540.70	39.71	9.625	0.472	47.0	0			1
JT-118	4580.42	38.74	9.625	0.472	47.0	0			1
JT-119	4619.16	39.81	9.625	0.472	47.0	0			1
JT-120	4658.96	40.00	9.625	0.472	47.0	0			1
JT-121	4698.96	39.86	9.625	0.472	47.0	0			1
JT-122	4738.82	39.17	9.625	0.472	47.0	0			1
JT-123	4777.99	37.77	9.625	0.472	47.0	0			1
JT-124	4815.76	39.54	9.625	0.472	47.0	0			1
JT-125	4855.30	40.11	9.625	0.472	47.0	0			1
JT-126	4895.41	38.48	9.625	0.472	47.0	0			1
JT-127	4933.90	39.96	9.625	0.472	47.0	0			1

JT-128	4973.85	37.74	9.625	0.472	47.0	0	1
JT-129	5011.59	40.06	9.625	0.472	47.0	0	1
JT-130	5051.66	39.66	9.625	0.472	47.0	0	1
JT-131	5091.32	39.85	9.625	0.472	47.0	0	1
JT-132	5131.17	39.96	9.625	0.472	47.0	0	1
JT-133	5171.12	38.08	9.625	0.472	47.0	0	1
JT-134	5209.21	39.93	9.625	0.472	47.0	0	1
JT-135	5249.14	39.99	9.625	0.472	47.0	0	1
JT-136	5289.13	39.79	9.625	0.472	47.0	0	1
JT-137	5328.92	39.93	9.625	0.472	47.0	0	1
JT-138	5368.85	37.52	9.625	0.472	47.0	0	1
JT-139	5406.38	38.40	9.625	0.472	47.0	0	1
JT-140	5444.77	38.24	9.625	0.472	47.0	0	1
JT-141	5483.01	39.21	9.625	0.472	47.0	0	1
JT-142	5522.22	40.43	9.625	0.472	47.0	0	1
JT-143	5562.66	39.67	9.625	0.472	47.0	0	1
JT-144	5602.33	38.43	9.625	0.472	47.0	0	1
JT-145	5640.76	37.40	9.625	0.472	47.0	0	1
JT-146	5678.16	39.79	9.625	0.472	47.0	0	1
JT-147	5717.95	39.79	9.625	0.472	47.0	0	1
JT-148	5757.74	38.16	9.625	0.472	47.0	0	1
JT-149	5795.89	40.10	9.625	0.472	47.0	0	1
JT-150	5836.00	39.49	9.625	0.472	47.0	0	1
JT-151	5875.49	40.31	9.625	0.472	47.0	0	1
JT-152	5915.80	39.86	9.625	0.472	47.0	0	1
JT-153	5955.66	39.78	9.625	0.472	47.0	0	1
JT-154	5995.44	39.98	9.625	0.472	47.0	0	1
JT-155	6035.41	39.01	9.625	0.472	47.0	0	1
JT-156	6074.42	38.56	9.625	0.472	47.0	0	1
JT-157	6112.98	39.49	9.625	0.472	47.0	0	1
JT-158	6152.47	40.87	9.625	0.472	47.0	0	1
JT-159	6193.34	39.37	9.625	0.472	47.0	0	1
JT-160	6232.72	39.69	9.625	0.472	47.0	0	1
JT-161	6272.40	40.63	9.625	0.472	47.0	0	1
JT-162	6313.04	39.31	9.625	0.472	47.0	0	1
JT-163	6352.35	38.20	9.625	0.472	47.0	0	1
JT-164	6390.54	35.54	9.625	0.472	47.0	0	1