HR Vertilog

Magnetic Flux Leakage Inspection

Advanced Analysis

Company	Southern California Gas Company
Well	Fernando Fee 38A
Field	Aliso Canyon
County	Los Angeles
State	California

Location:
N/A

Section 27	Township T3N	Range R16W	

Date	May. 4, 2016
Service Order	US107205
Recorded by	Aaron Smith/Matt Parker
Witnessed by	Jeff Sandoval
API Serial No.	04-037-24230

Permanent Datum:	G.L.	Elevation:	1716.000 ft.	Depth	7565.000
Log Measured From:	K.B.	32.000	ft. above Perm. Datum	Btm. Log Interval	6983.980
Drilling Measured From:	K.B.	32.000	ft. above Perm. Datum	Top Log Interval	39.760
				Fluid Type	KCL

Casing Data

Size	Weight	Grade	From	To	Length
9 5/8 inch	47.0 lb/ft	N80 (HR Std)	22.4	6998.5	6976.1
13-3/8 inch	54.5 lb/ft	K55	0	864	864.0
4-1/2 inch	11.6 lb/ft	J55	7029	7354	325.0

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	103607277	

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
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Calibration Source File	20150504_072254_MEM.MVL
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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

Log Measured from Casing Flange 1.5 above ground level

KB 32 feet Above Ground Level

Interpretation

HRVRT analysis was depth correlated to the SLB USIT collar listing logged 11 May 2016.

The top joint is a short joint.

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

There was no reportable metal loss features identified which exceeds the 15% metal loss cutoff.

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	Type	ID/OD
1	39.76	51.52	11.76	Class 1	-	-	-	-
2	51.52	98.78	47.26	Class 1	-	-	-	-
3	98.78	146.05	47.27	Class 1	-	-	-	-

3	98.78	146.05	47.27	Class 1	-	-	-	-
4	146.05	192.70	46.65	Class 1	-	-	-	-
5	192.70	239.85	47.15	Class 1	-	-	-	-
6	239.85	286.89	47.04	Class 1	-	-	-	-
7	286.89	333.47	46.58	Class 1	-	-	-	-
8	333.47	380.57	47.10	Class 1	-	-	-	-
9	380.57	426.89	46.32	Class 1	-	-	-	-
10	426.89	474.34	47.45	Class 1	-	-	-	-
11	474.34	521.87	47.53	Class 1	-	-	-	-
12	521.87	569.14	47.27	Class 1	-	-	-	-
13	569.14	614.99	45.85	Class 1	-	-	-	-
14	614.99	661.79	46.80	Class 1	-	-	-	-
15	661.79	708.66	46.87	Class 1	-	-	-	-
16	708.66	755.48	46.82	Class 1	-	-	-	-
17	755.48	802.03	46.55	Class 1	-	-	-	-
18	802.03	848.77	46.74	Class 1	-	-	-	-
19	848.77	893.30	44.53	Class 1	-	-	-	-
20	893.30	940.53	47.23	Class 1	-	-	-	-
21	940.53	986.62	46.09	Class 1	-	-	-	-
22	986.62	1033.81	47.19	Class 1	-	-	-	-
23	1033.81	1080.29	46.48	Class 1	-	-	-	-
24	1080.29	1126.80	46.51	Class 1	-	-	-	-
25	1126.80	1173.05	46.25	Class 1	-	-	-	-
26	1173.05	1220.33	47.28	Class 1	-	-	-	-
27	1220.33	1267.48	47.15	Class 1	-	-	-	-
28	1267.48	1313.89	46.41	Class 1	-	-	-	-
29	1313.89	1357.45	43.56	Class 1	-	-	-	-
30	1357.45	1403.70	46.25	Class 1	-	-	-	-
31	1403.70	1450.92	47.22	Class 1	-	-	-	-
32	1450.92	1494.54	43.62	Class 1	-	-	-	-
33	1494.54	1540.71	46.17	Class 1	-	-	-	-
34	1540.71	1588.03	47.32	Class 1	-	-	-	-
35	1588.03	1633.52	45.49	Class 1	-	-	-	-
36	1633.52	1679.64	46.12	Class 1	-	-	-	-
37	1679.64	1725.73	46.09	Class 1	-	-	-	-
38	1725.73	1772.03	46.30	Class 1	-	-	-	-
39	1772.03	1819.27	47.24	Class 1	-	-	-	-
40	1819.27	1866.60	47.33	Class 1	-	-	-	-
41	1866.60	1914.01	47.41	Class 1	-	-	-	-
42	1914.01	1960.82	46.81	Class 1	-	-	-	-
43	1960.82	2007.35	46.53	Class 1	-	-	-	-
44	2007.35	2053.98	46.63	Class 1	-	-	-	-
45	2053.98	2101.42	47.44	Class 1	-	-	-	-
46	2101.42	2148.65	47.23	Class 1	-	-	-	-
47	2148.65	2194.81	46.16	Class 1	-	-	-	-
48	2194.81	2242.04	47.23	Class 1	-	-	-	-
49	2242.04	2286.18	44.14	Class 1	-	-	-	-
50	2286.18	2333.24	47.06	Class 1	-	-	-	-
51	2333.24	2380.24	47.00	Class 1	-	-	-	-
52	2380.24	2426.71	46.47	Class 1	-	-	-	-
53	2426.71	2473.59	46.88	Class 1	-	-	-	-
54	2473.59	2519.40	45.81	Class 1	-	-	-	-
55	2519.40	2566.88	47.48	Class 1	-	-	-	-
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57	2614.26	2660.63	46.37	Class 1	-	-	-	-
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60	2754.00	2800.86	46.86	Class 1	-	-	-	-
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62	2848.00	2892.61	44.61	Class 1	-	-	-	-
63	2892.61	2940.00	47.39	Class 1	-	-	-	-
64	2940.00	2987.35	47.35	Class 1	-	-	-	-
65	2987.35	3034.85	47.50	Class 1	-	-	-	-
66	3034.85	3080.68	45.83	Class 1	-	-	-	-

67	3080.68	3127.52	46.84	Class 1	-	-	-	-
68	3127.52	3173.04	45.52	Class 1	-	-	-	-
69	3173.04	3217.18	44.14	Class 1	-	-	-	-
70	3217.18	3263.46	46.28	Class 1	-	-	-	-
71	3263.46	3309.60	46.14	Class 1	-	-	-	-
72	3309.60	3356.42	46.82	Class 1	-	-	-	-
73	3356.42	3403.07	46.65	Class 1	-	-	-	-
74	3403.07	3450.29	47.22	Class 1	-	-	-	-
75	3450.29	3497.54	47.25	Class 1	-	-	-	-
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77	3544.40	3591.77	47.37	Class 1	-	-	-	-
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89	4104.79	4151.52	46.73	Class 1	-	-	-	-
90	4151.52	4198.60	47.08	Class 1	-	-	-	-
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92	4244.96	4291.44	46.48	Class 1	-	-	-	-
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96	4433.07	4480.08	47.01	Class 1	-	-	-	-
97	4480.08	4527.31	47.23	Class 1	-	-	-	-
98	4527.31	4574.46	47.15	Class 1	-	-	-	-
99	4574.46	4620.95	46.49	Class 1	-	-	-	-
100	4620.95	4667.96	47.01	Class 1	-	-	-	-
101	4667.96	4715.07	47.11	Class 1	-	-	-	-
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130	6013.79	6060.42	46.63	Class 1				

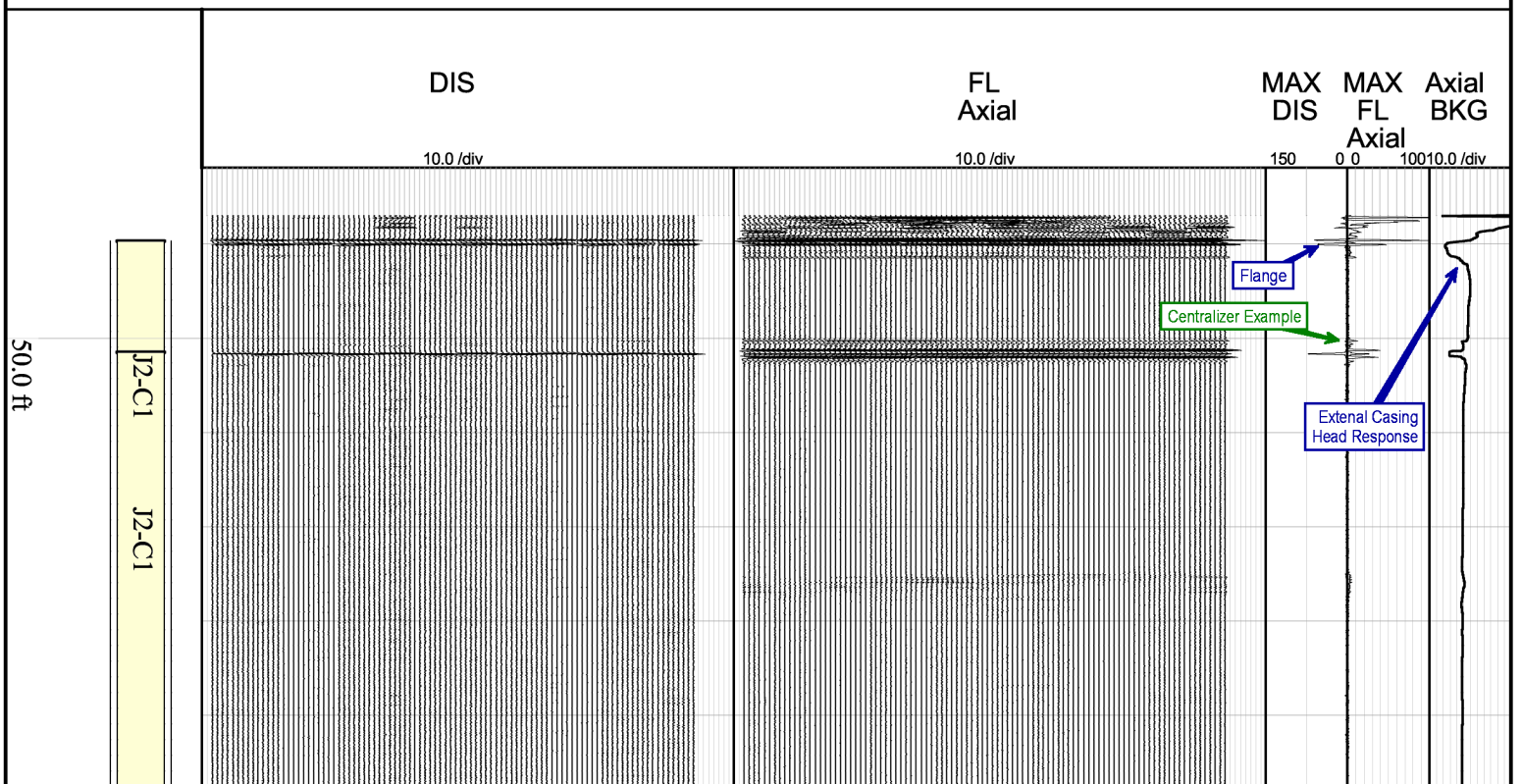
130	6013.79	6060.42	46.63	Class 1	-	-	-	-
131	6060.42	6104.86	44.44	Class 1	-	-	-	-
132	6104.86	6150.47	45.61	Class 1	-	-	-	-
133	6150.47	6195.65	45.18	Class 1	-	-	-	-
134	6195.65	6243.13	47.48	Class 1	-	-	-	-
135	6243.13	6290.25	47.12	Class 1	-	-	-	-
136	6290.25	6336.76	46.51	Class 1	-	-	-	-
137	6336.76	6383.78	47.02	Class 1	-	-	-	-
138	6383.78	6430.28	46.50	Class 1	-	-	-	-
139	6430.28	6476.08	45.80	Class 1	-	-	-	-
140	6476.08	6521.66	45.58	Class 1	-	-	-	-
141	6521.66	6569.34	47.68	Class 1	-	-	-	-
142	6569.34	6614.41	45.07	Class 1	-	-	-	-
143	6614.41	6659.41	45.00	Class 1	-	-	-	-
144	6659.41	6703.27	43.86	Class 1	-	-	-	-
145	6703.27	6750.53	47.26	Class 1	-	-	-	-
146	6750.53	6795.93	45.40	Class 1	-	-	-	-
147	6795.93	6843.36	47.43	Class 1	-	-	-	-
148	6843.36	6889.99	46.63	Class 1	-	-	-	-
149	6889.99	6936.48	46.49	Class 1	-	-	-	-
150	6936.48	6983.41	46.93	Class 1	-	-	-	-
151	6983.41	6983.98	0.57	Class 1	-	-	-	-

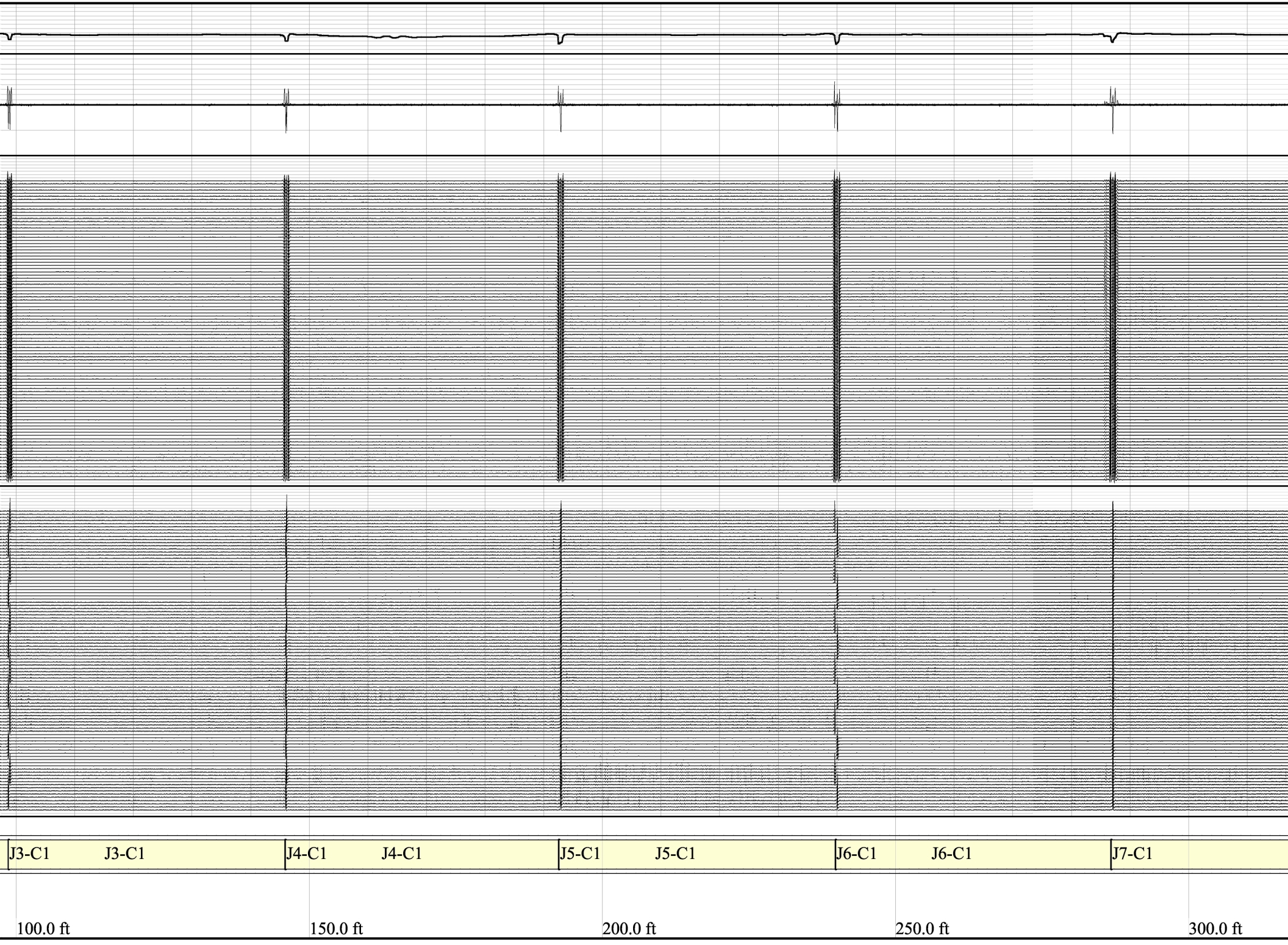
Southern California Gas Company Fernando Fee 38A

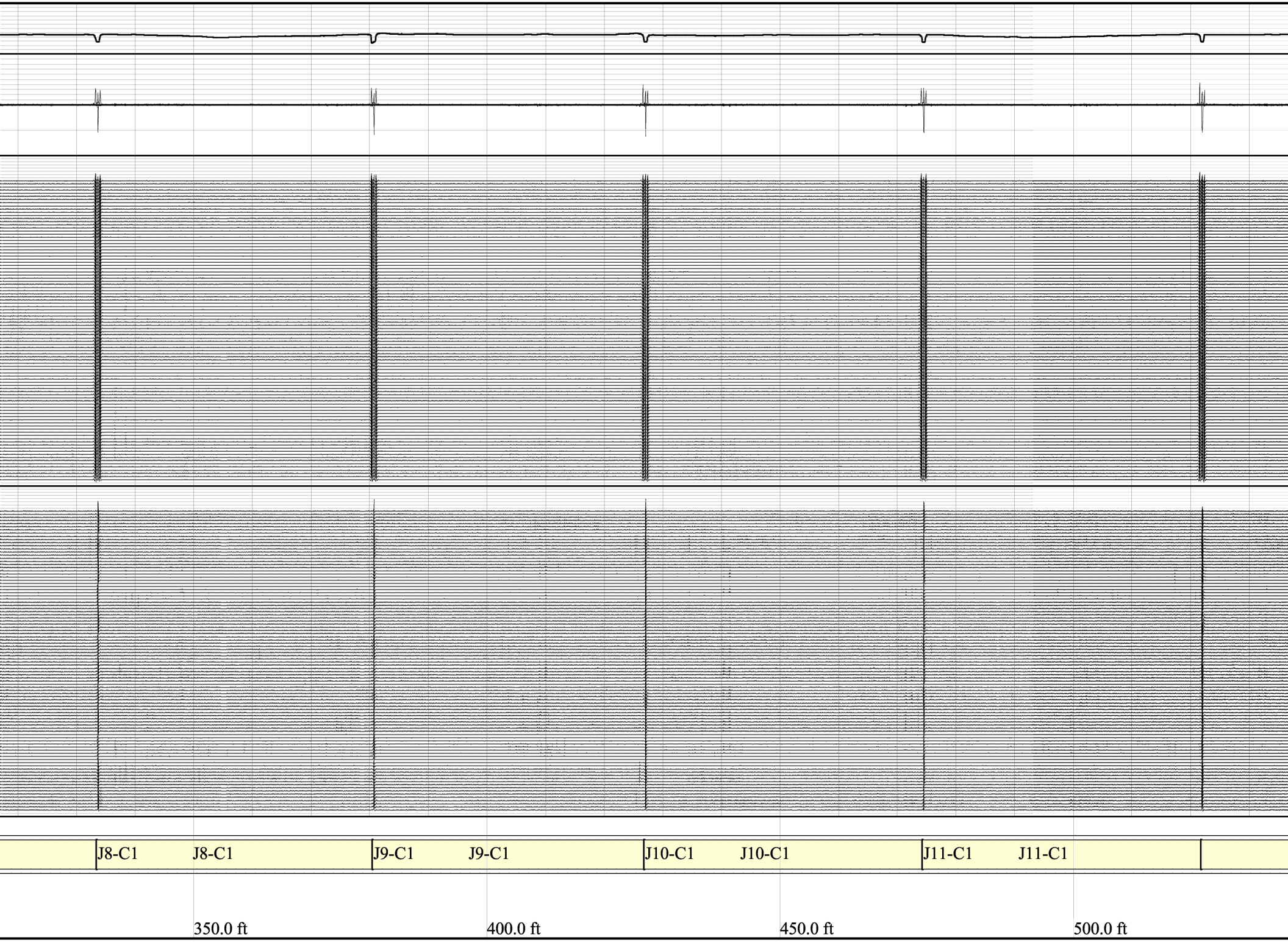
File 20160504_142040_RSP_0_0_0_0_0.mvl

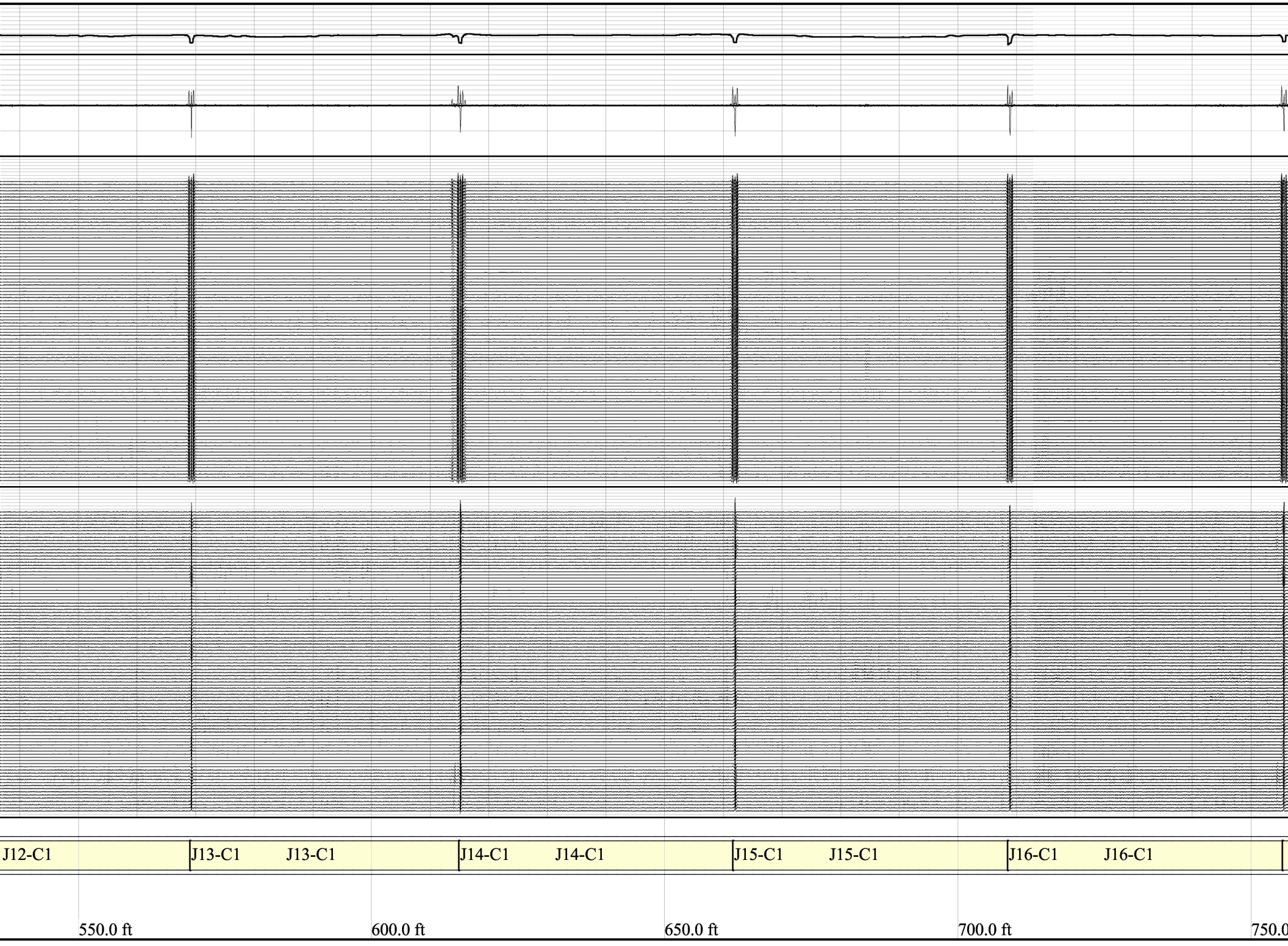
Main Log
5" / 100'

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




J3-C1
J3-C1
J4-C1
J4-C1
J5-C1
J5-C1
J6-C1
J6-C1
J7-C1
100.0 ft
150.0 ft
200.0 ft
250.0 ft
300.0 ft


J8-C1
J8-C1
J9-C1
J9-C1
J10-C1
J10-C1
J11-C1
J11-C1
350.0 ft
400.0 ft
450.0 ft
500.0 ft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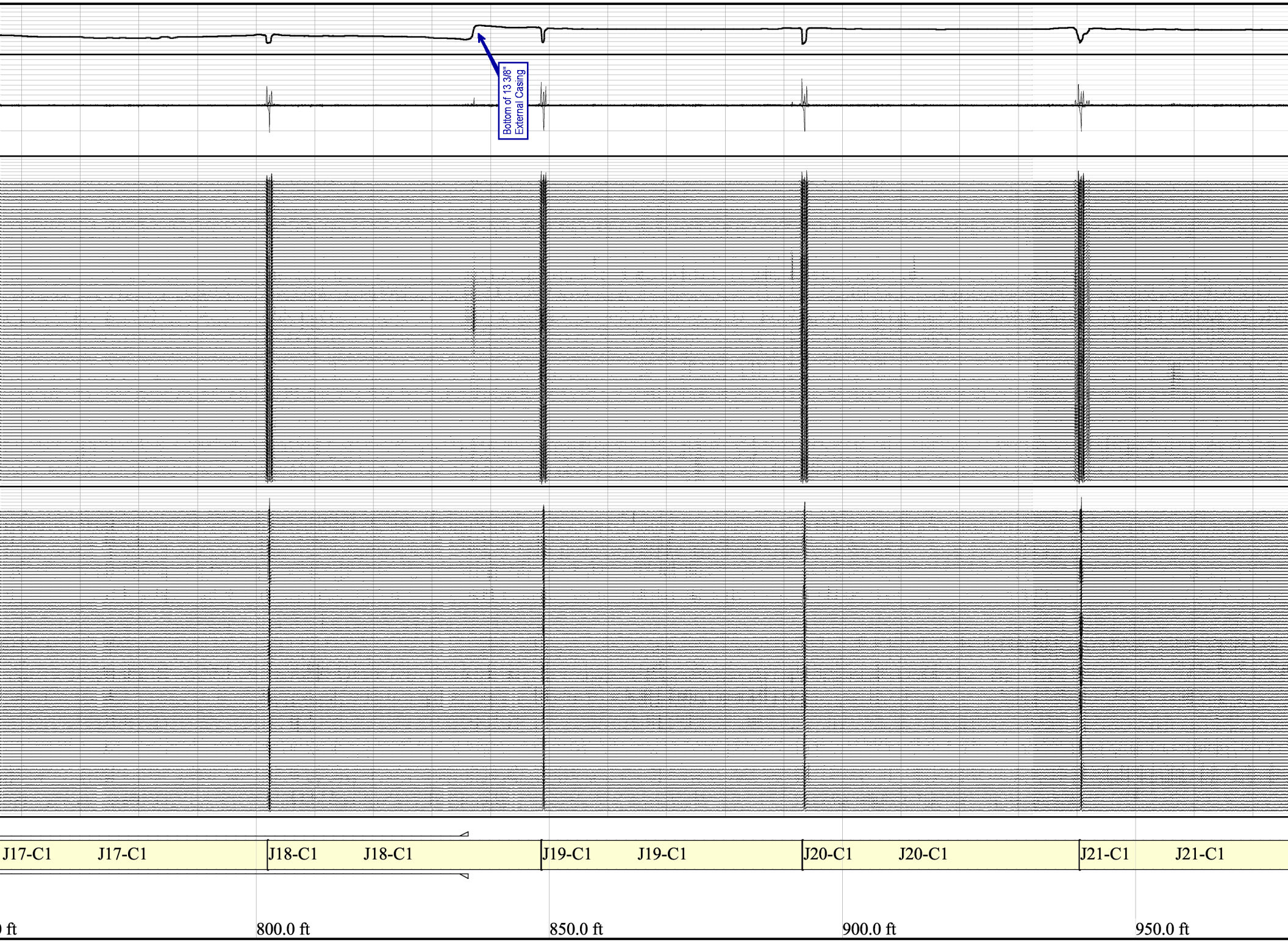
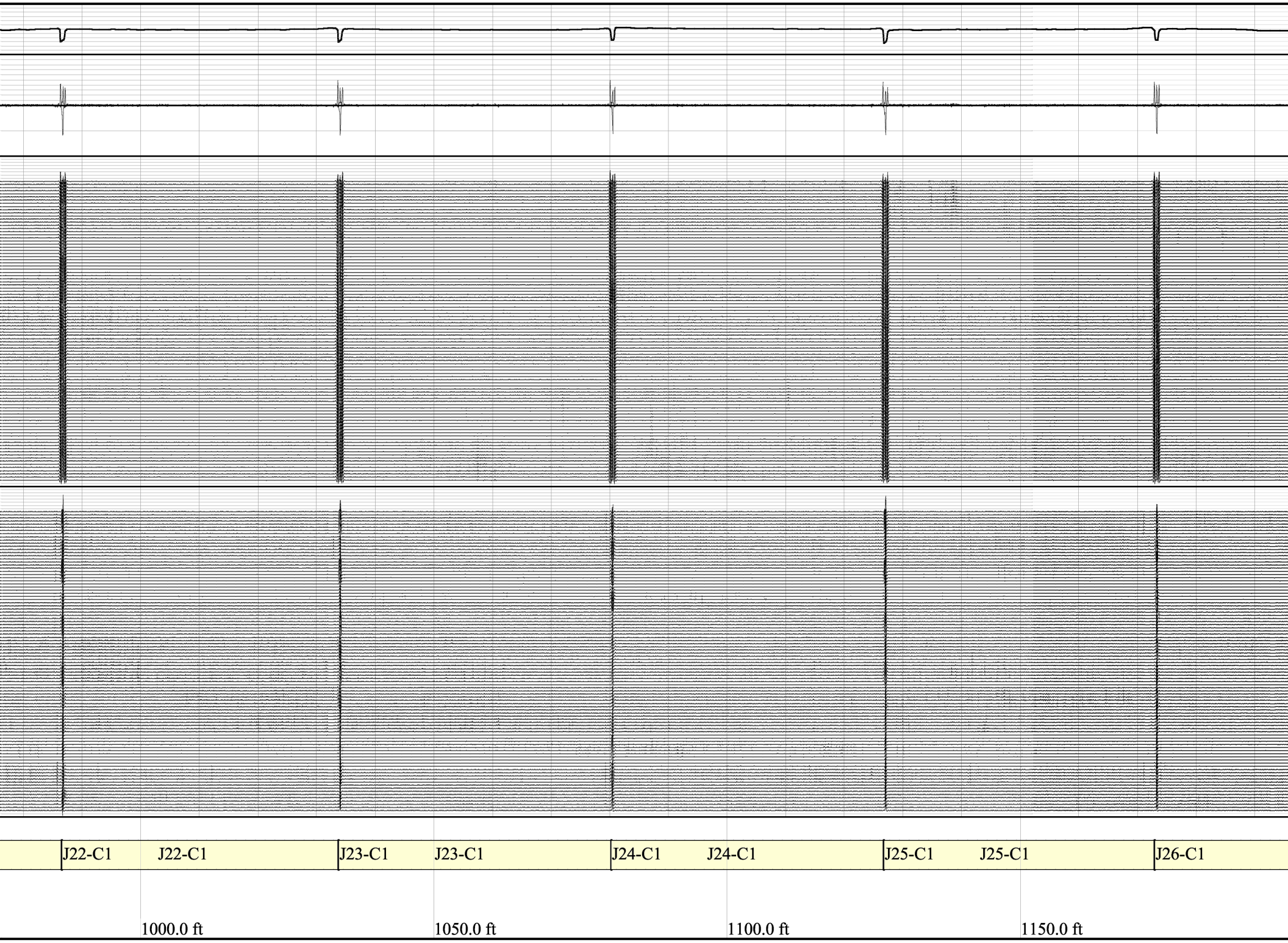
J13-C1
J13-C1
J14-C1
J14-C1
J15-C1
J15-C1
J16-C1
J16-C1
550.0 ft
600.0 ft
650.0 ft
700.0 ft
750.0


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
800.0 ft
850.0 ft
900.0 ft
950.0 ft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J23-C1
J23-C1
J24-C1
J24-C1
J25-C1
J25-C1
J26-C1
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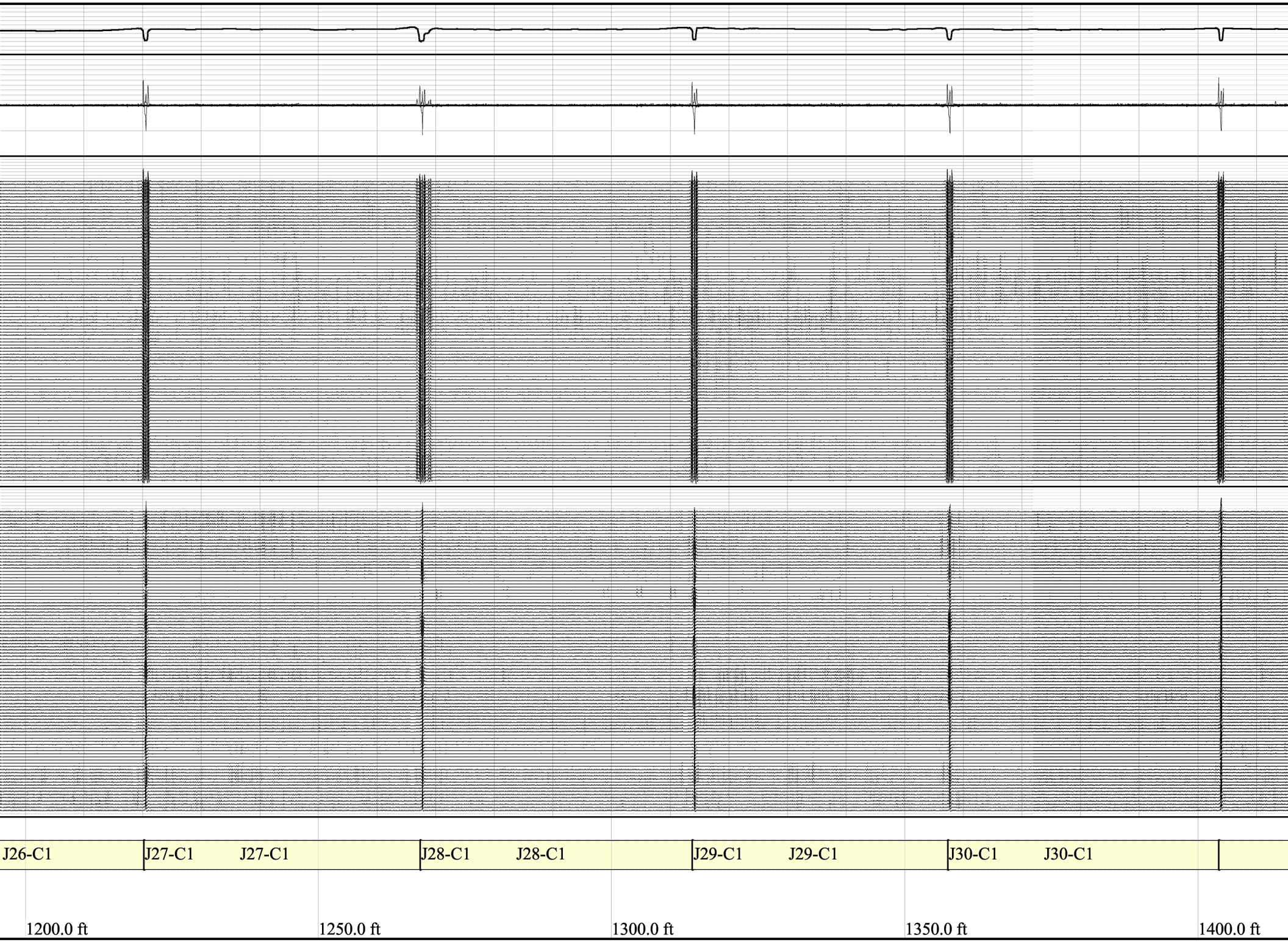
1050.0 ft
1100.0 ft
1150.0 ft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J27-C1
J27-C1
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J28-C1
J29-C1
J29-C1
J30-C1
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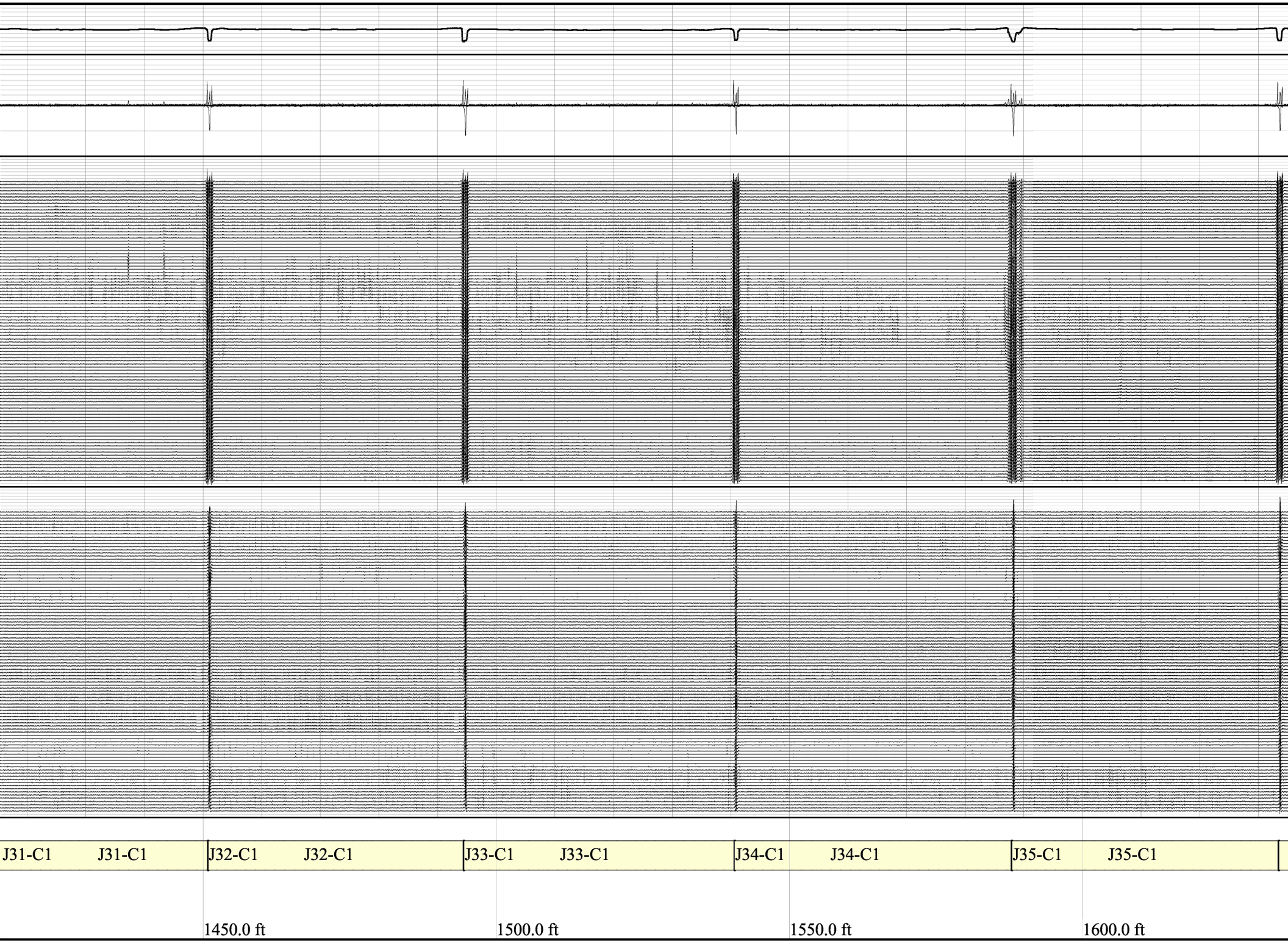
1350.0 ft
1400.0 ft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J32-C1
J32-C1
J33-C1
J33-C1
J34-C1
J34-C1
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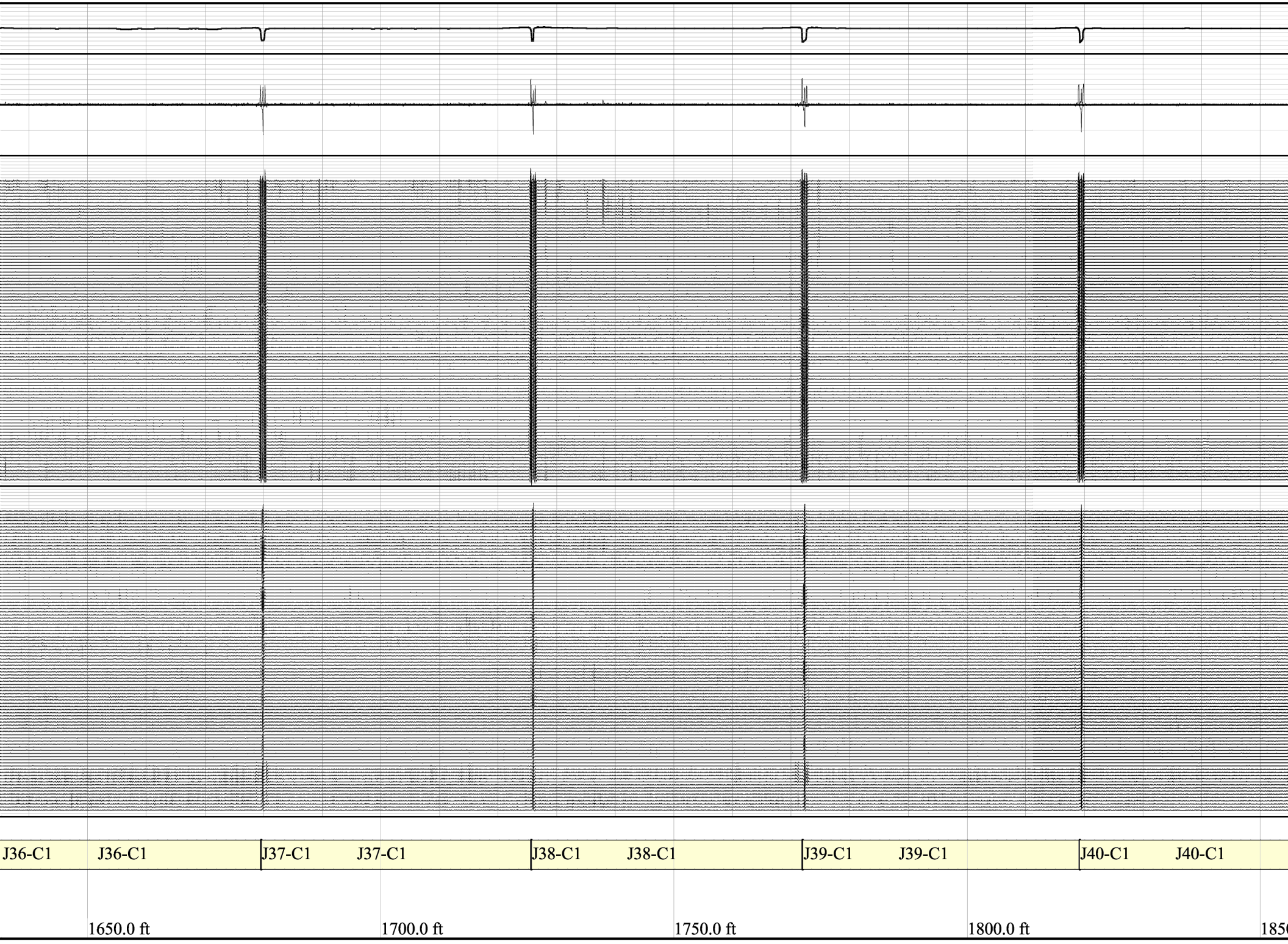
1500.0 ft
1550.0 ft
1600.0 ft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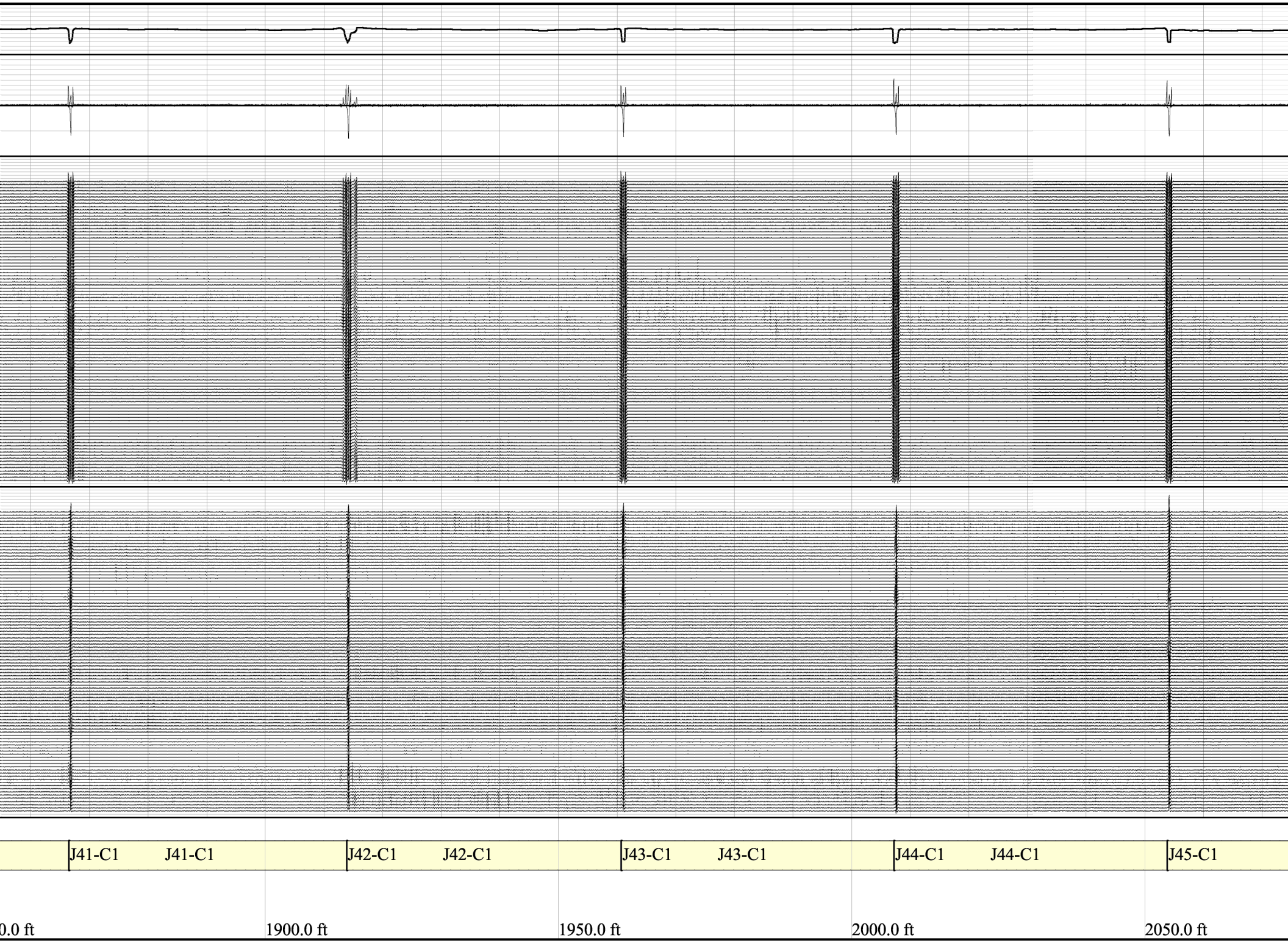
J37-C1
J38-C1
J38-C1
J39-C1
J39-C1
J40-C1
J40-C1
1650.0 ft
1700.0 ft
1750.0 ft
1800.0 ft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J42-C1
J42-C1
J43-C1
J43-C1
J44-C1
J44-C1
J45-C1
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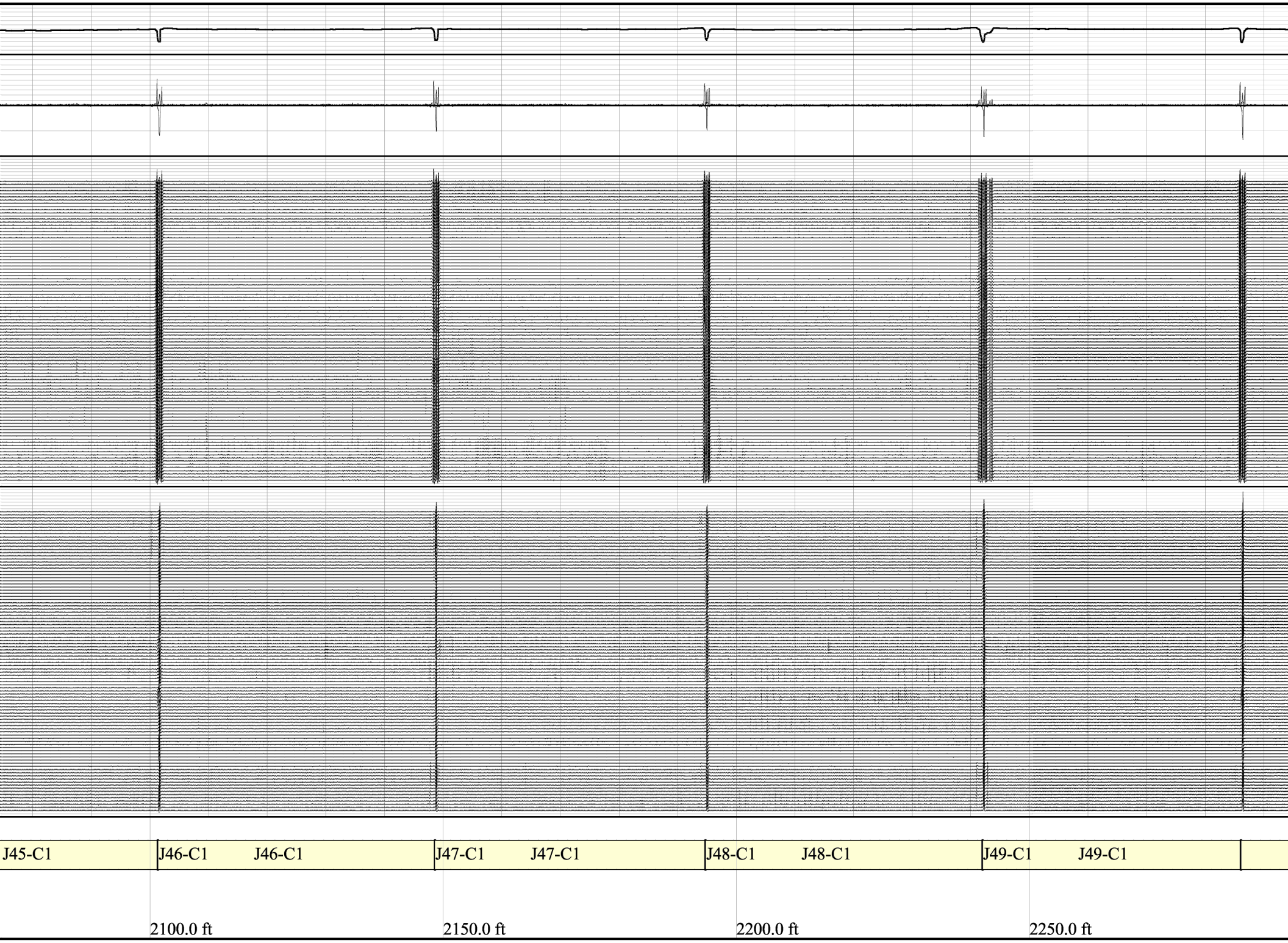
1900.0 ft
1950.0 ft
2000.0 ft
2050.0 ft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J46-C1
J46-C1
J47-C1
J47-C1
J48-C1
J48-C1
J49-C1
J49-C1
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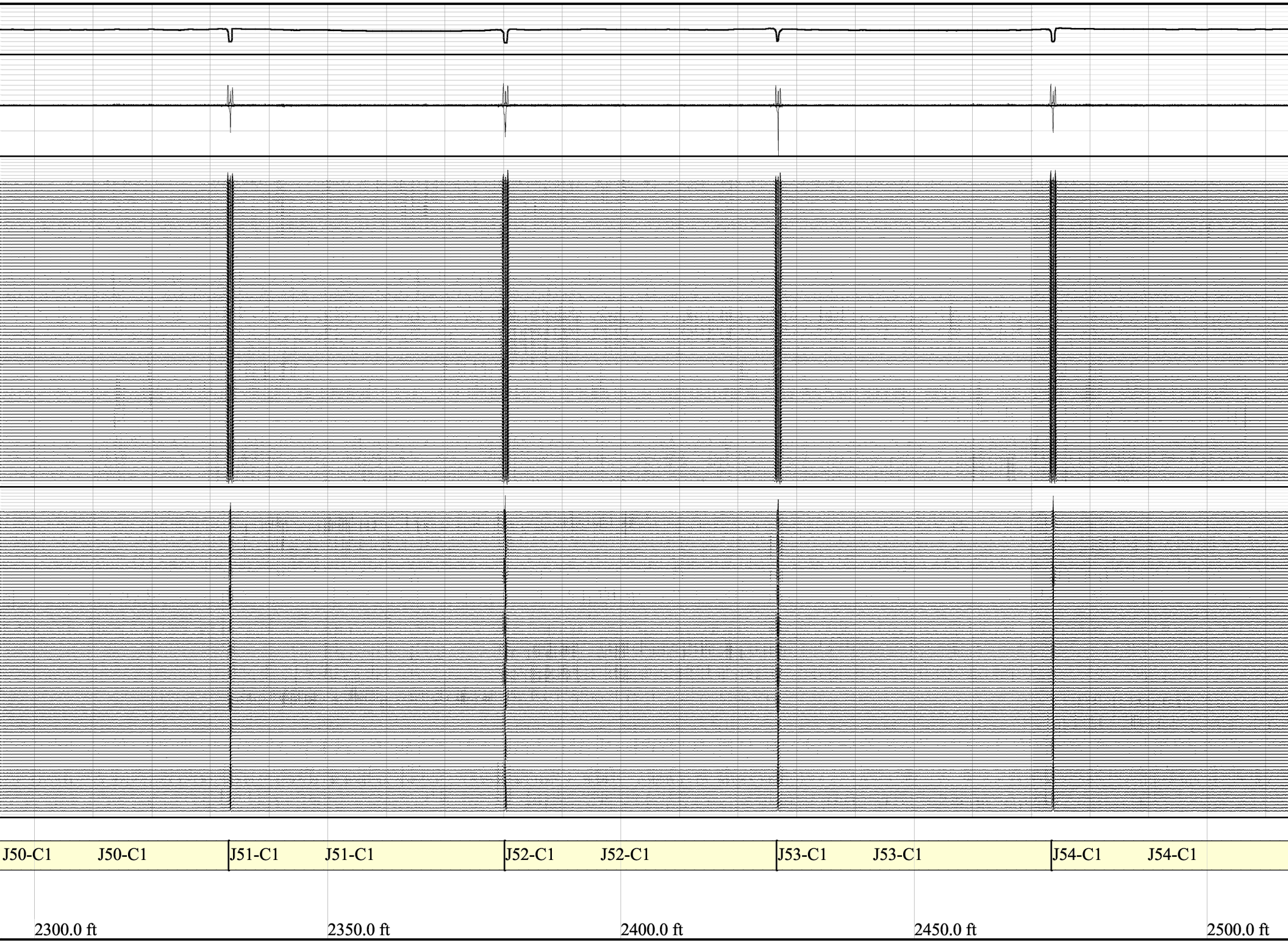
2200.0 ft
2250.0 ft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J51-C1
J51-C1
J52-C1
J52-C1
J53-C1
J53-C1
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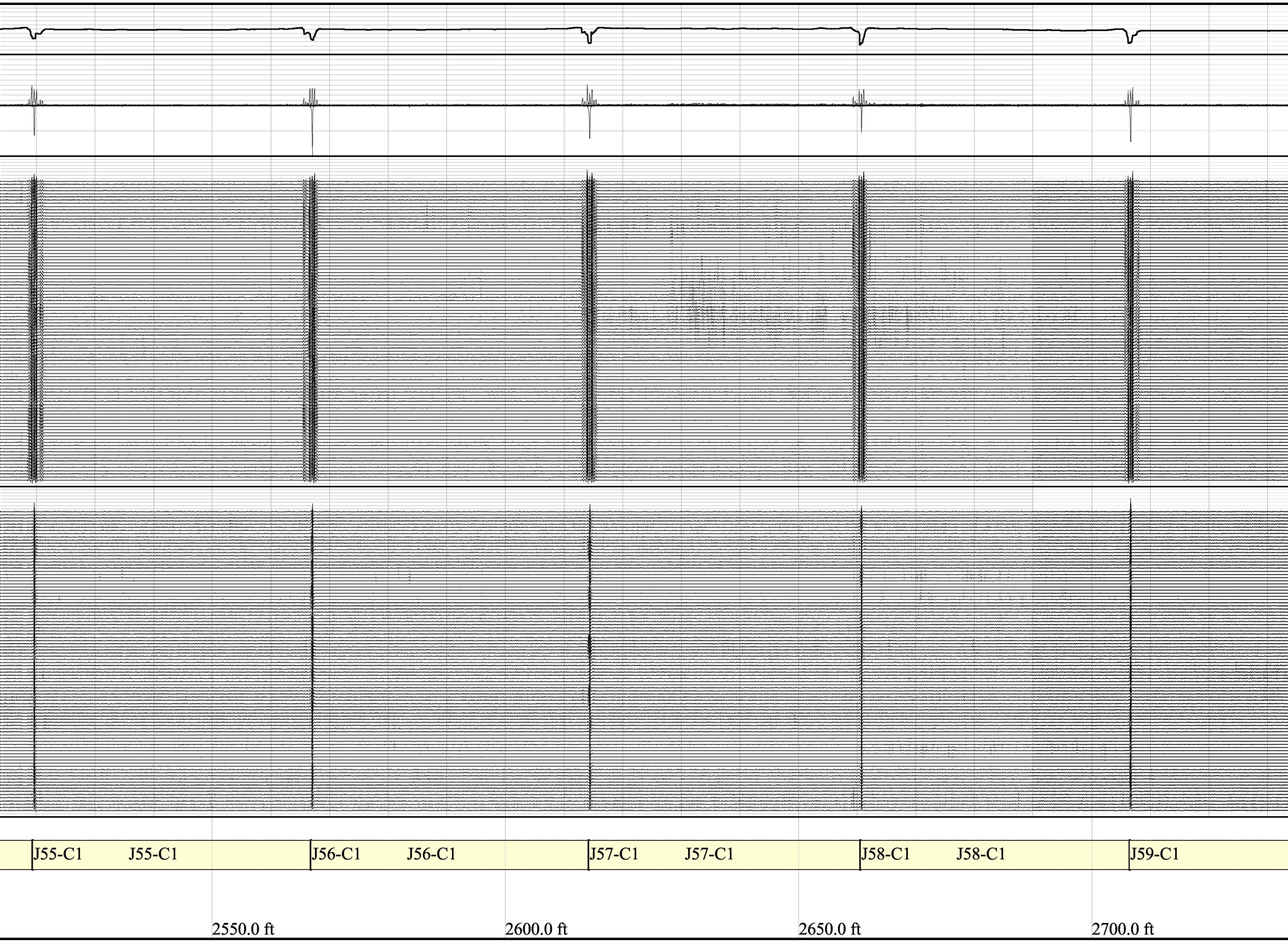
2400.0 ft
2450.0 ft
2500.0 ft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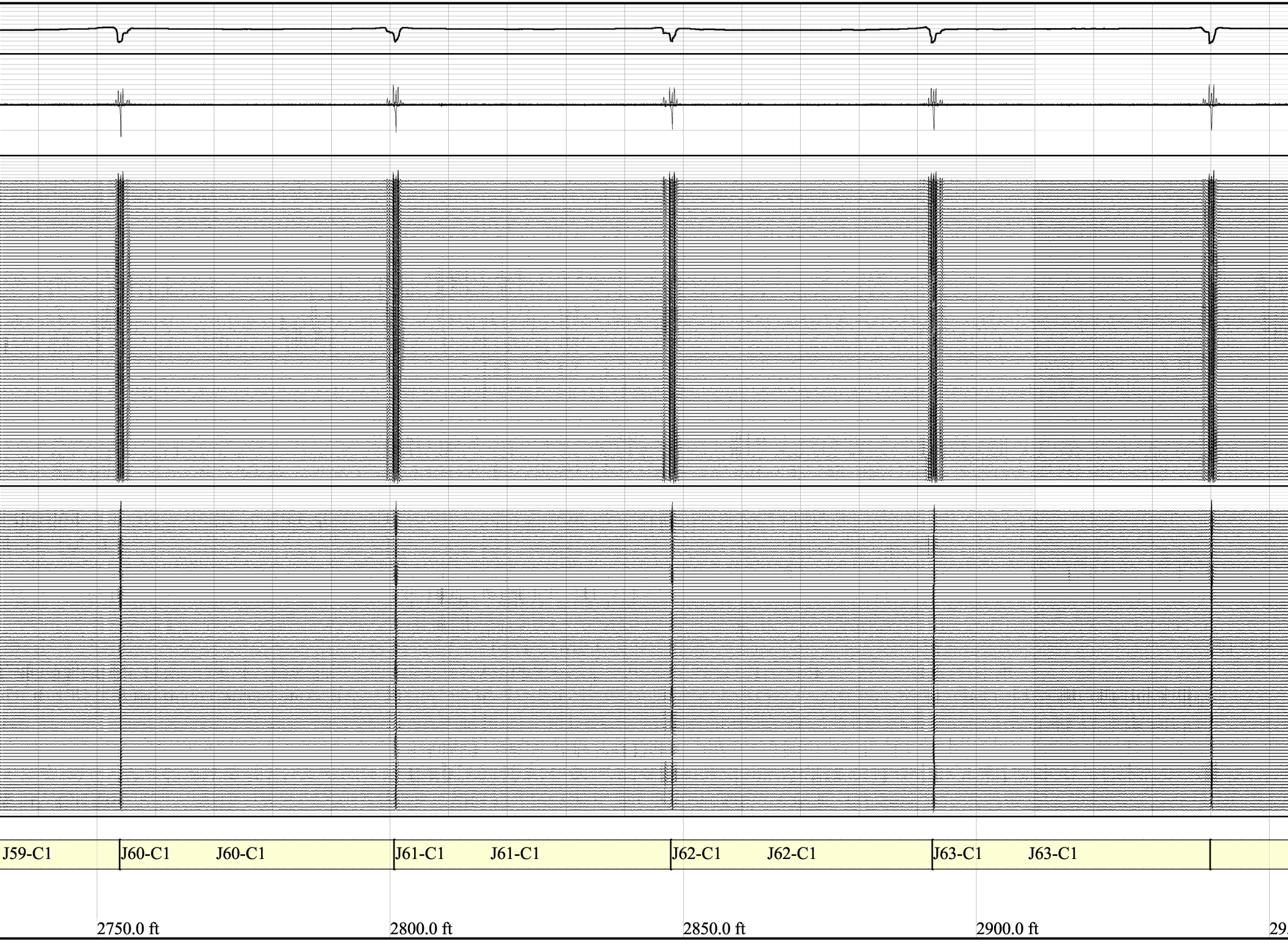
J55-C1
J56-C1
J56-C1
J57-C1
J57-C1
J58-C1
J58-C1
J59-C1
2550.0 ft
2600.0 ft
2650.0 ft
2700.0 ft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J60-C1
J60-C1
J61-C1
J61-C1
J62-C1
J62-C1
J63-C1
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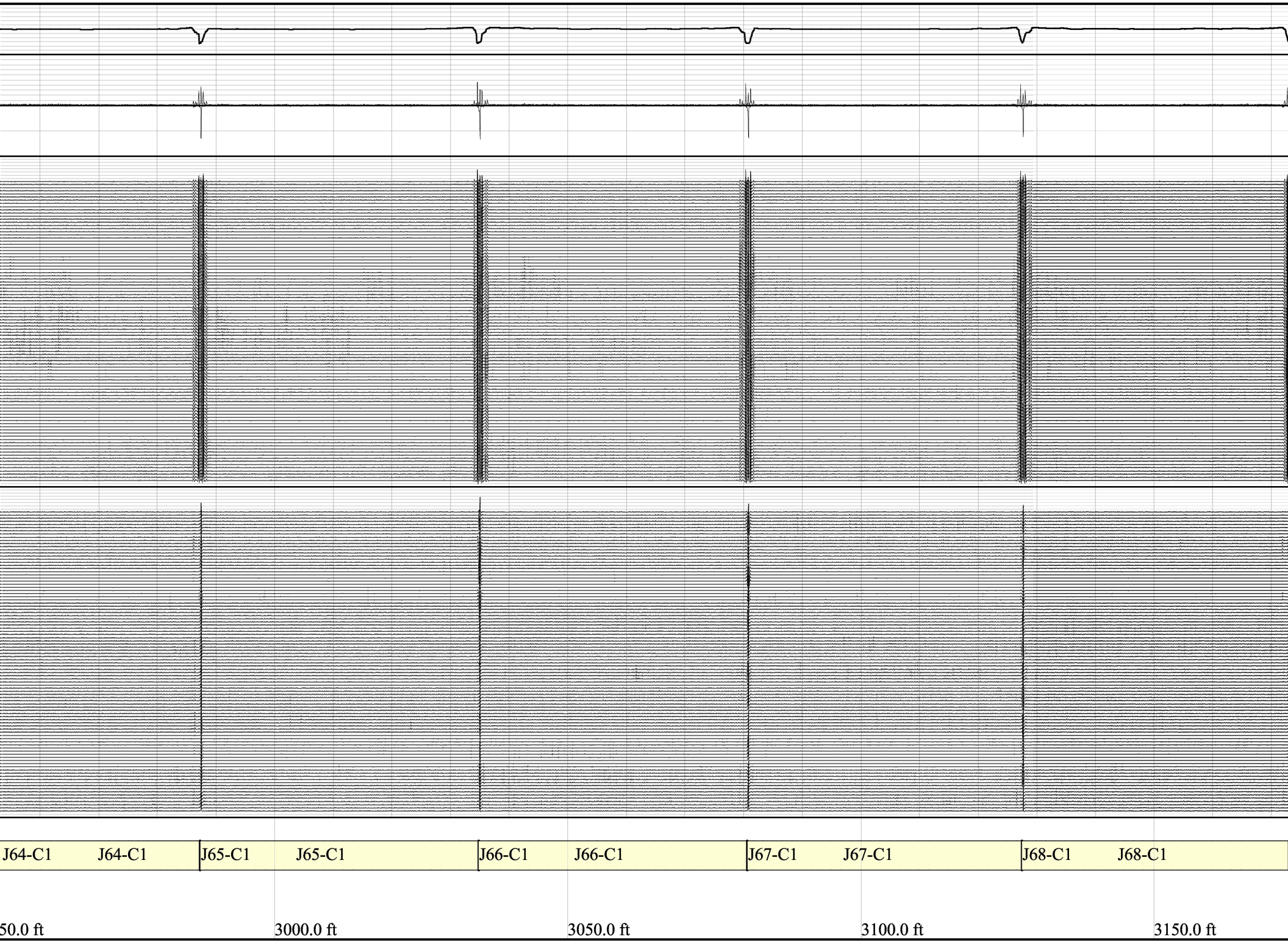
2800.0 ft
2850.0 ft
2900.0 ft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J66-C1
J66-C1
J67-C1
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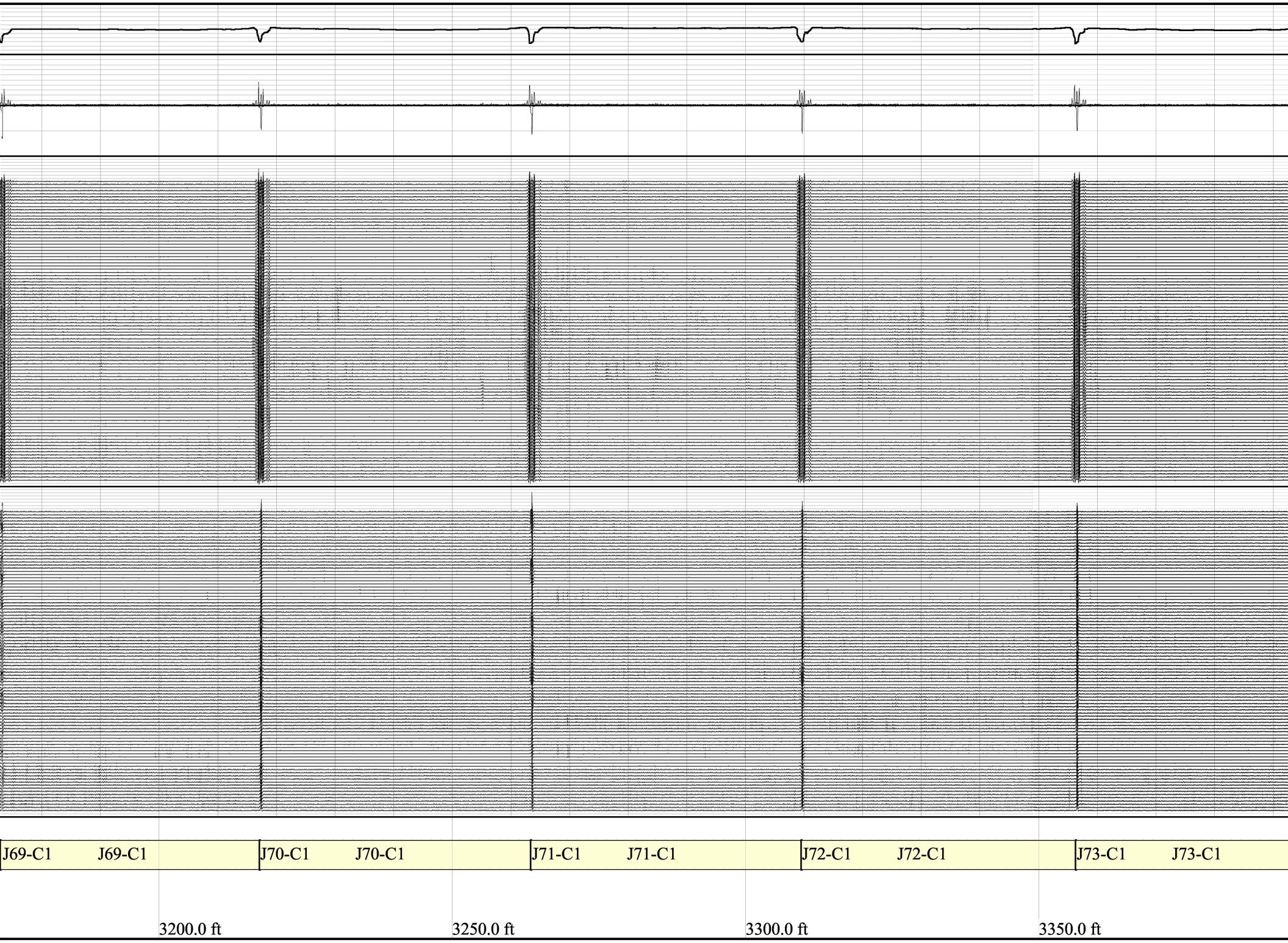
J68-C1
J68-C1
50.0 ft
3000.0 ft
3050.0 ft
3100.0 ft
3150.0 ft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J70-C1
J70-C1
J71-C1
J71-C1
J72-C1
J72-C1
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J73-C1
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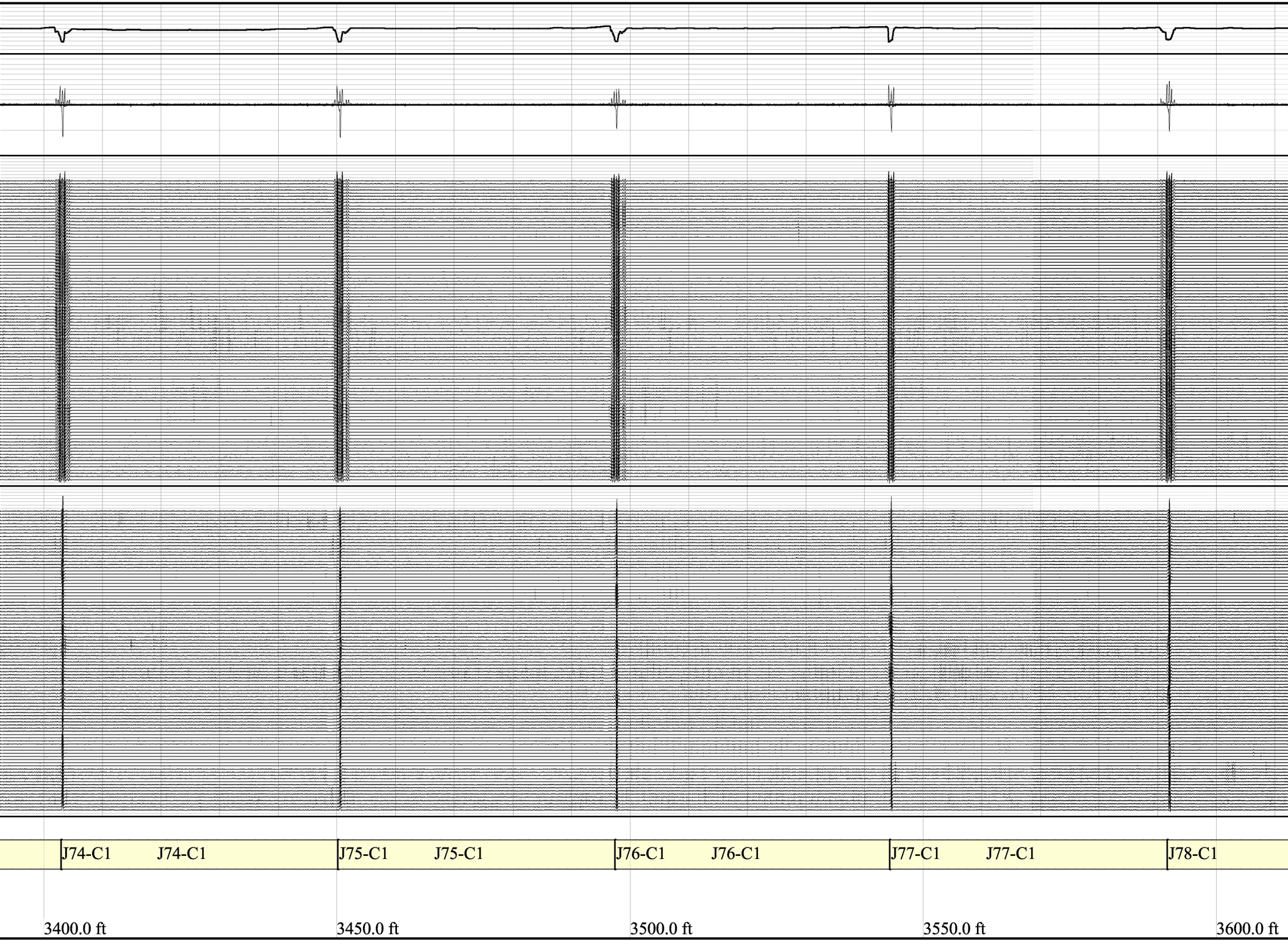
3300.0 ft
3350.0 ft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J74-C1
J75-C1
J75-C1
J76-C1
J76-C1
J77-C1
J77-C1
J78-C1
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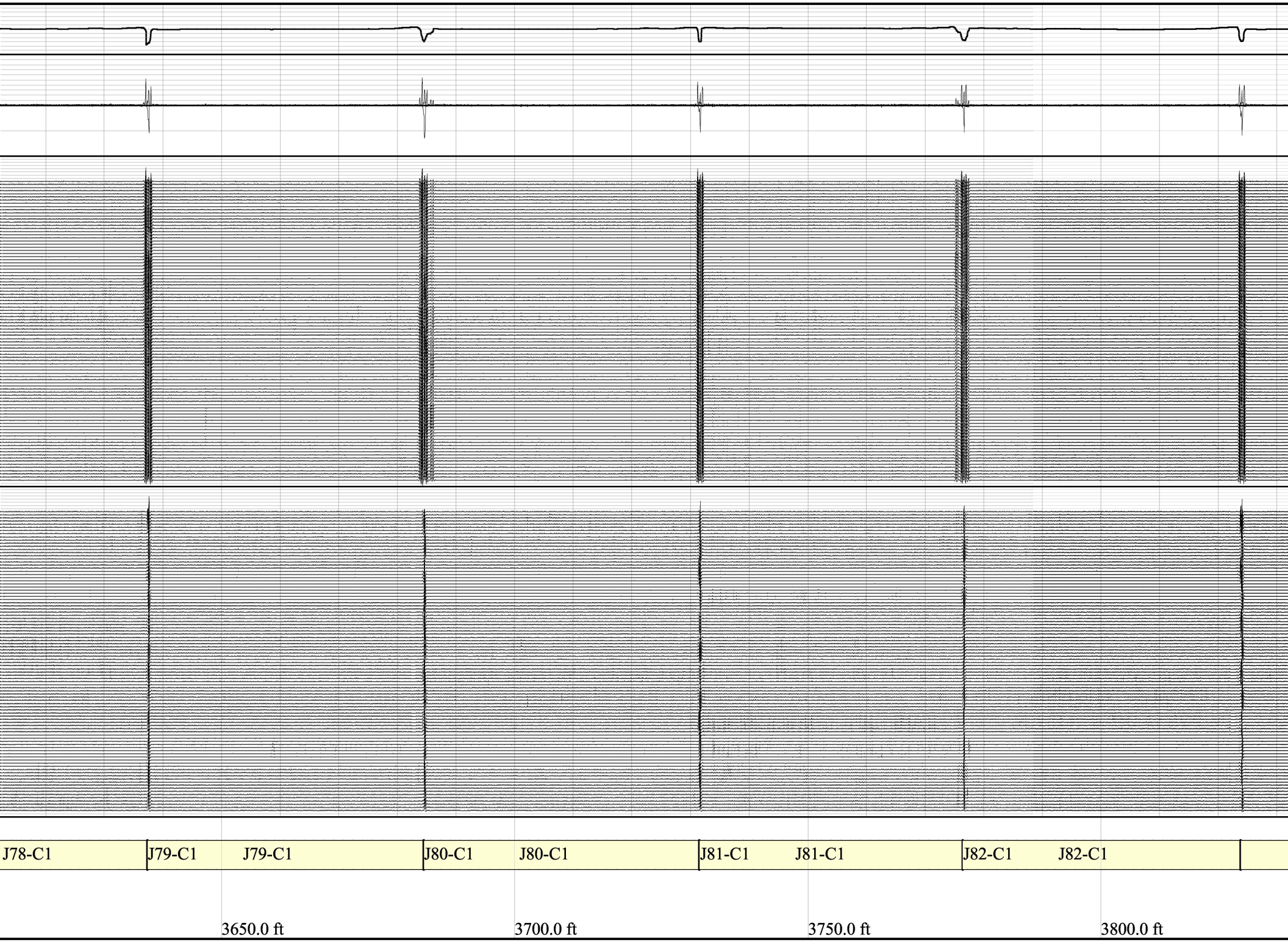
3500.0 ft
3550.0 ft
3600.0 ft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J79-C1
J79-C1
J80-C1
J80-C1
J81-C1
J81-C1
J82-C1
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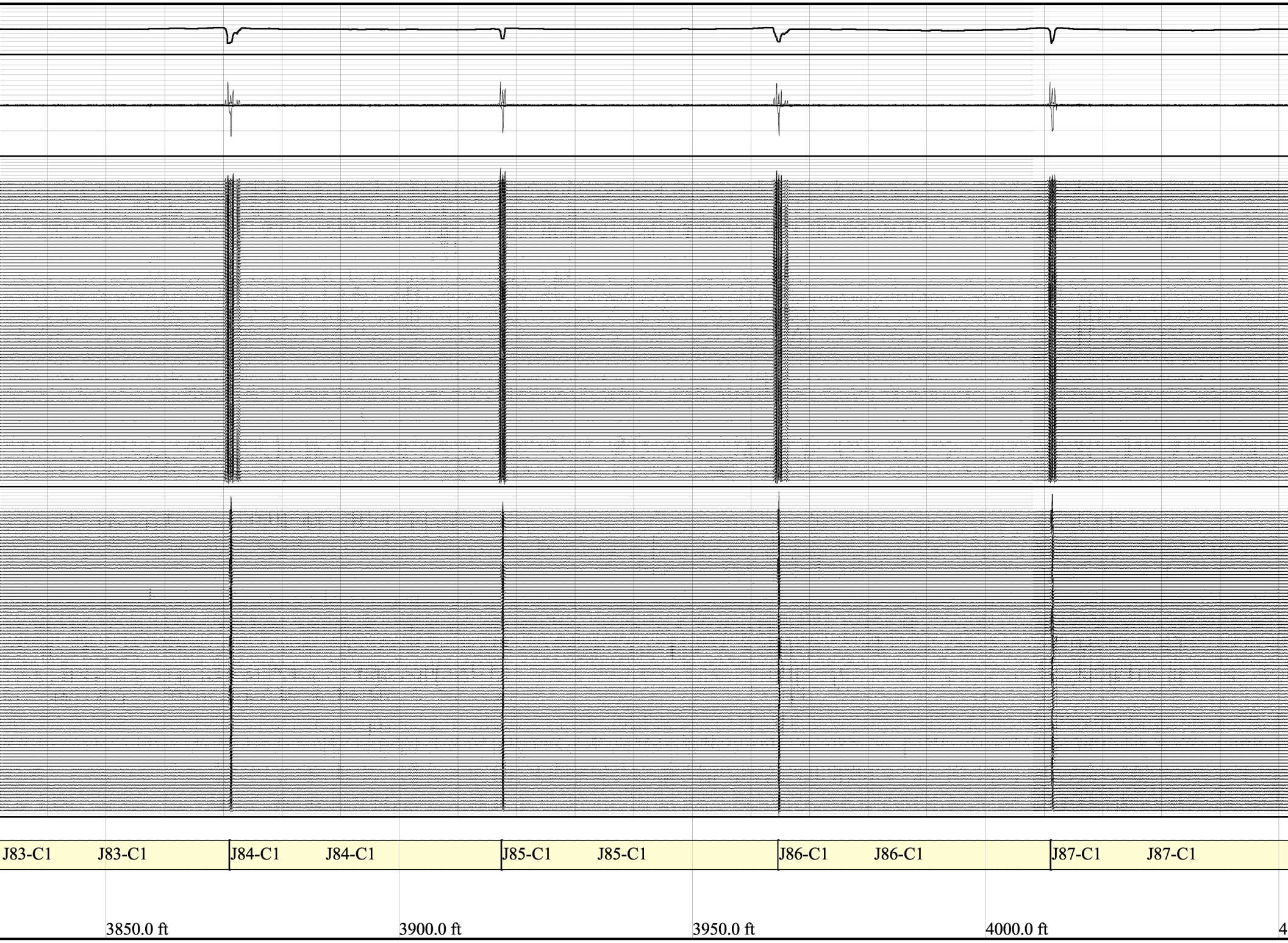
3700.0 ft
3750.0 ft
3800.0 ft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J83-C1
J84-C1
J84-C1
J85-C1
J85-C1
J86-C1
J86-C1
J87-C1
J87-C1
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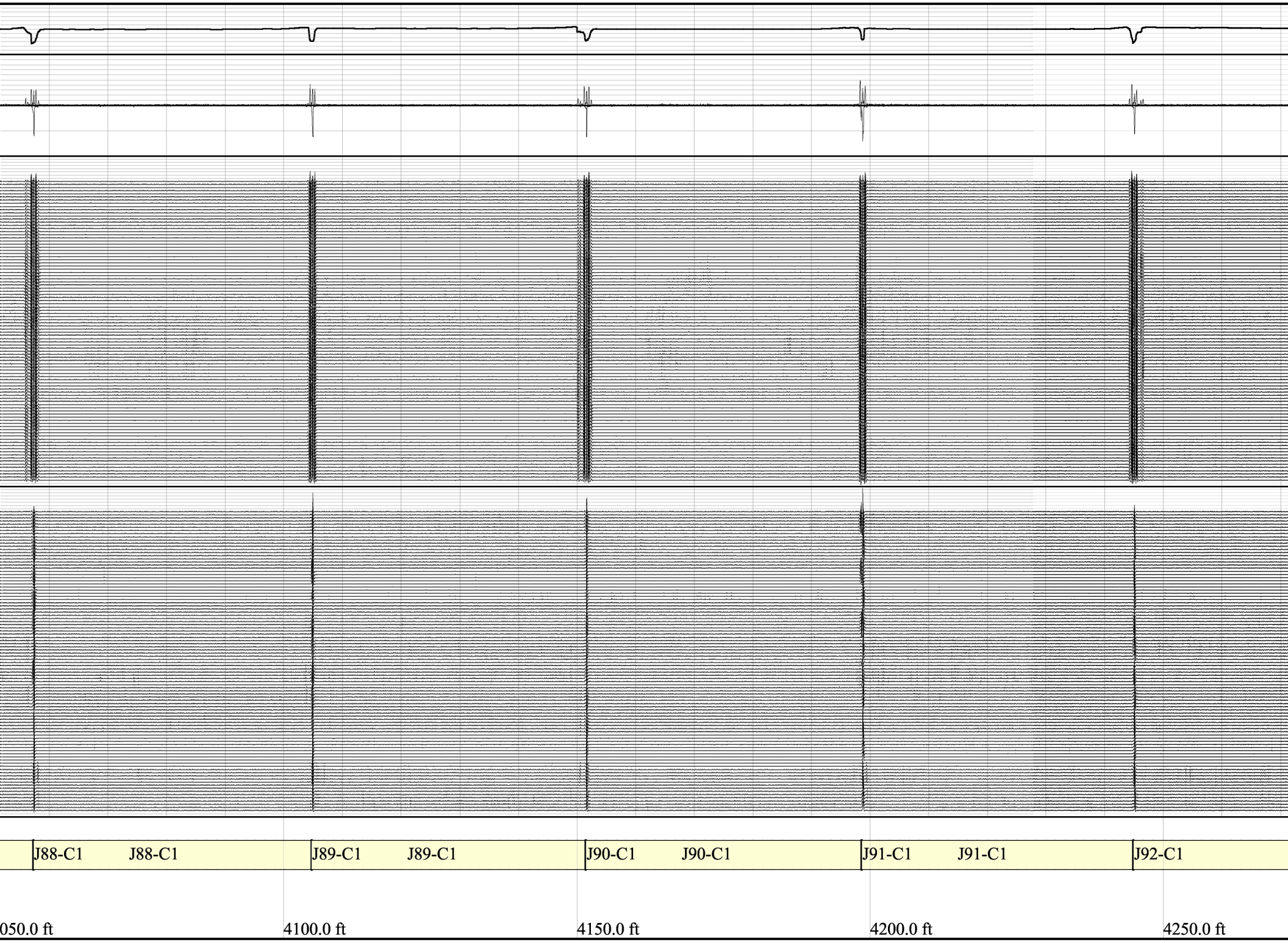
3900.0 ft
3950.0 ft
4000.0 ft
4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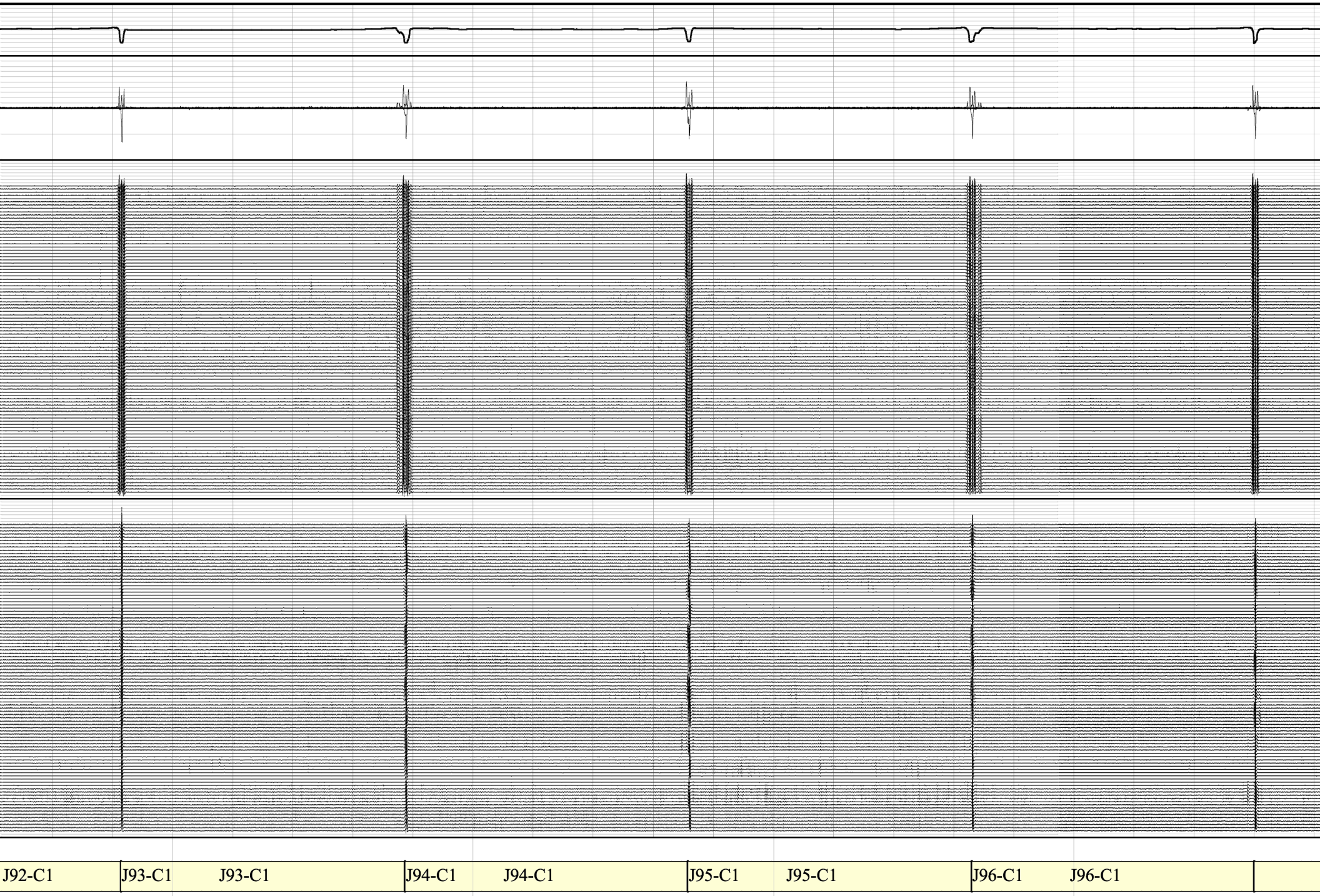
J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
J91-C1
J91-C1
J92-C1
050.0 ft
4100.0 ft
4150.0 ft
4200.0 ft
4250.0 ft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J93-C1
J93-C1
J94-C1
J94-C1
J95-C1
J95-C1
J96-C1
J96-C1
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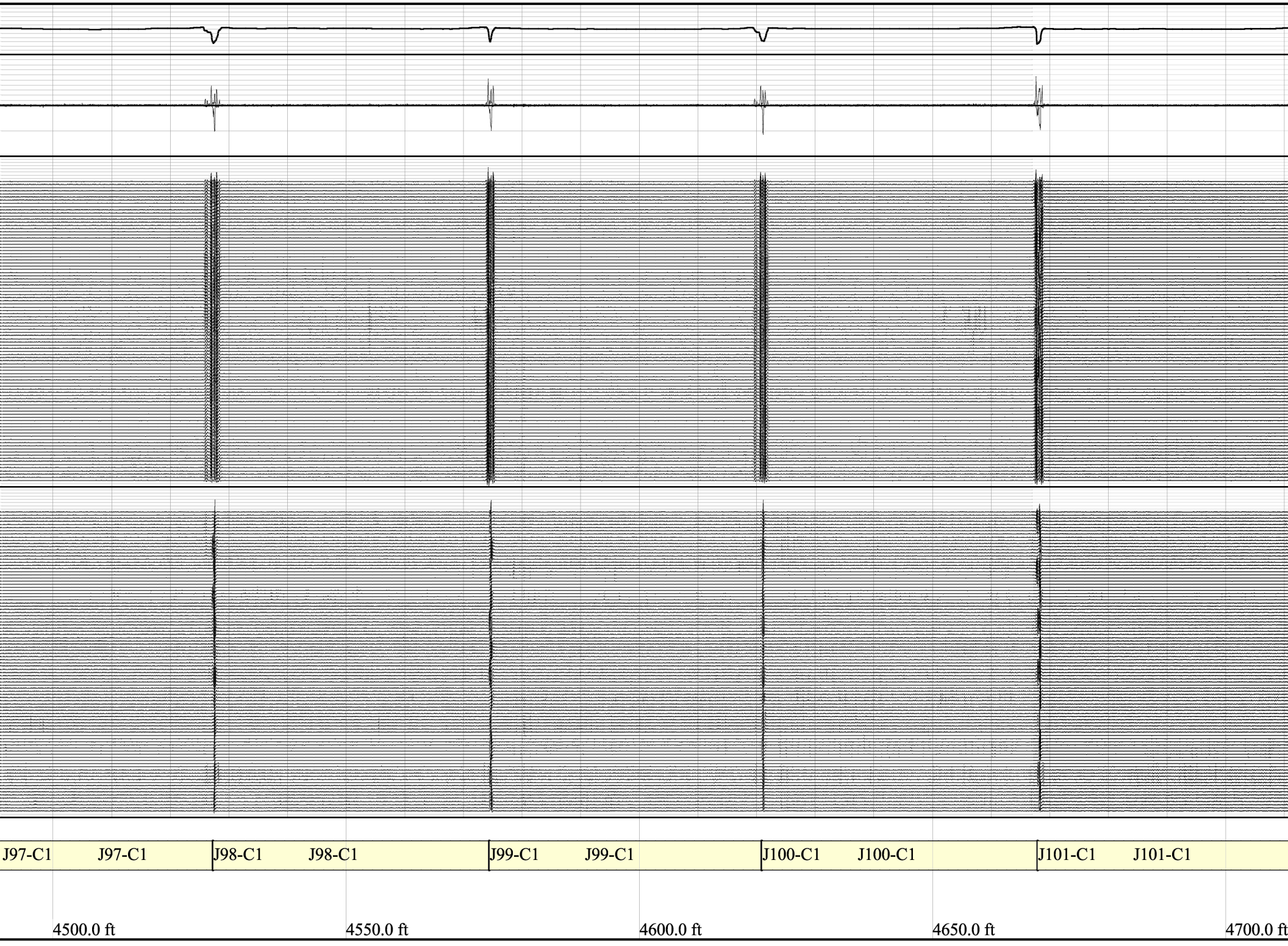
4350.0 ft
4400.0 ft
4450.0 ft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J98-C1
J98-C1
J99-C1
J99-C1
J100-C1
J100-C1
J101-C1
J101-C1
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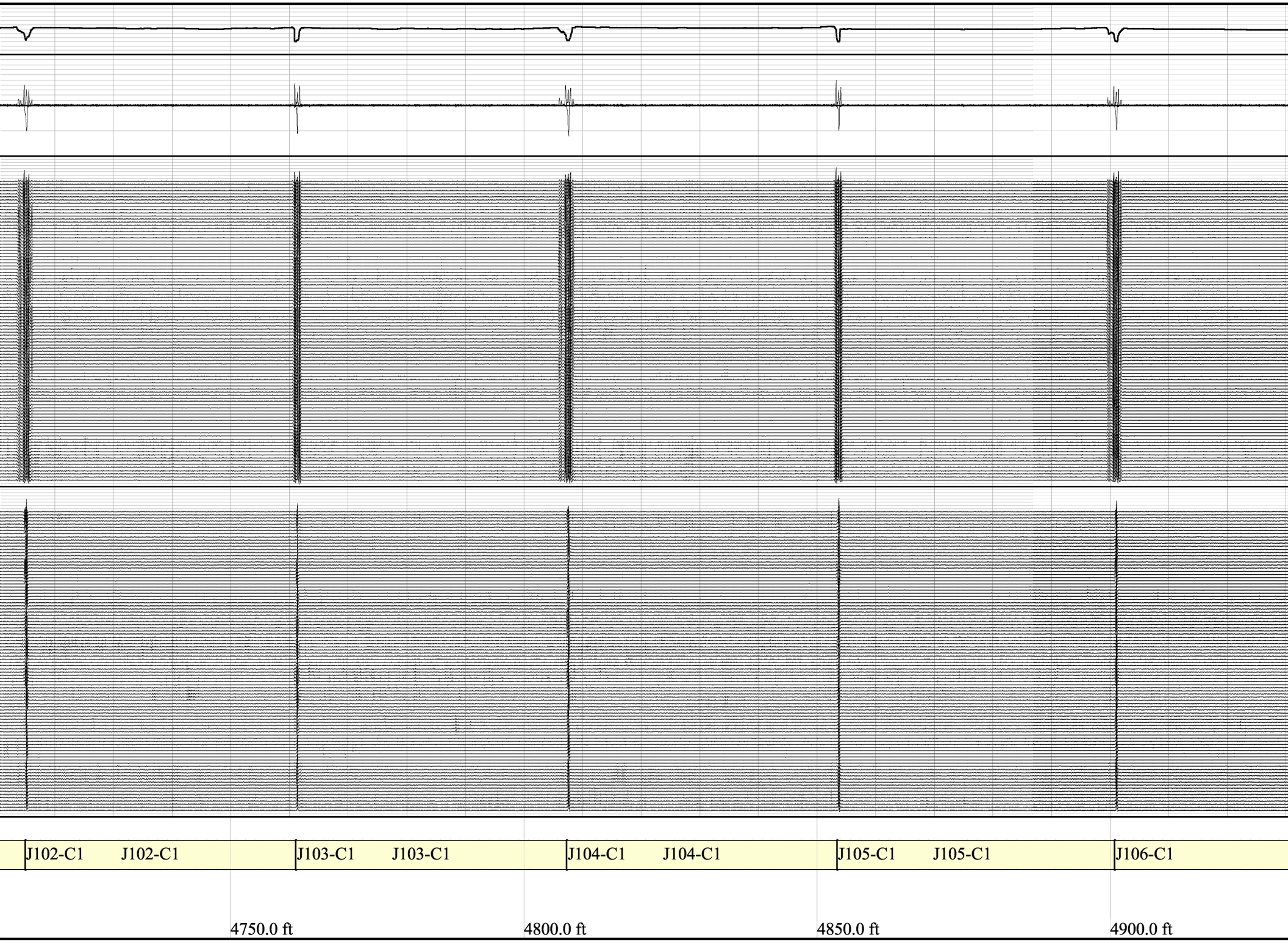
4650.0 ft
4700.0 ft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J102-C1
J103-C1
J103-C1
J104-C1
J104-C1
J105-C1
J105-C1
J106-C1
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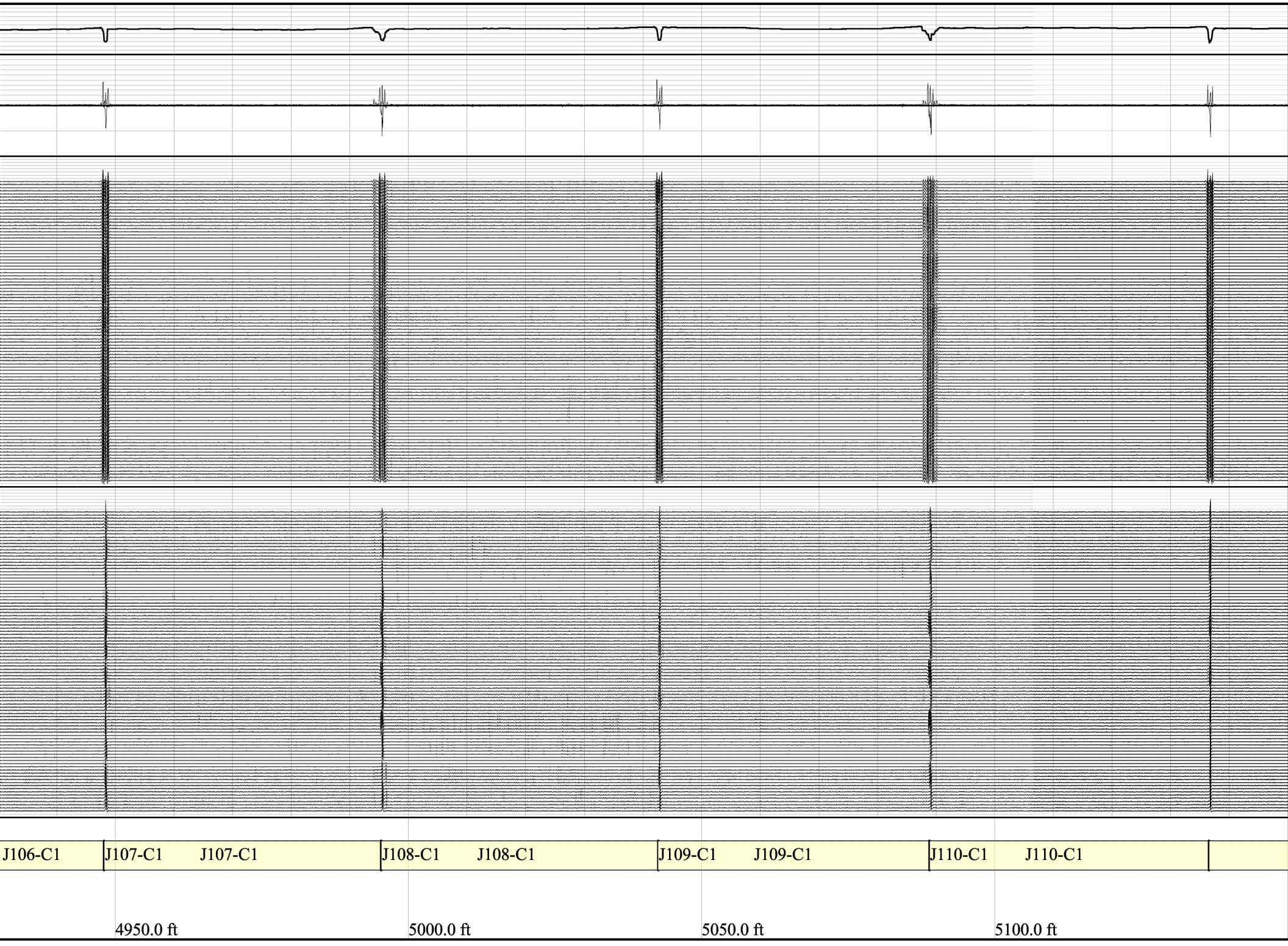
4850.0 ft
4900.0 ft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J107-C1
J107-C1
J108-C1
J108-C1
J109-C1
J109-C1
J110-C1
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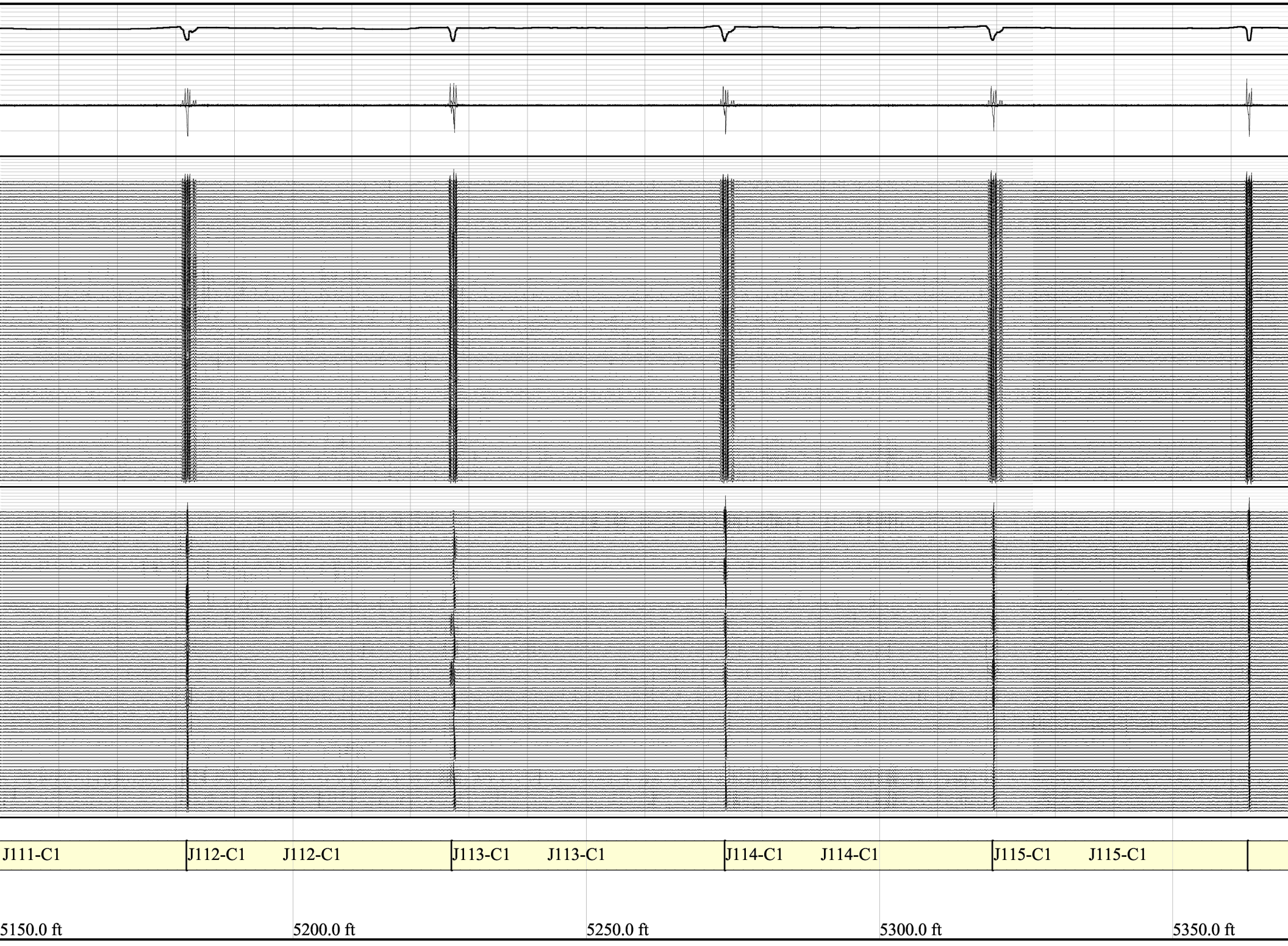
5000.0 ft
5050.0 ft
5100.0 ft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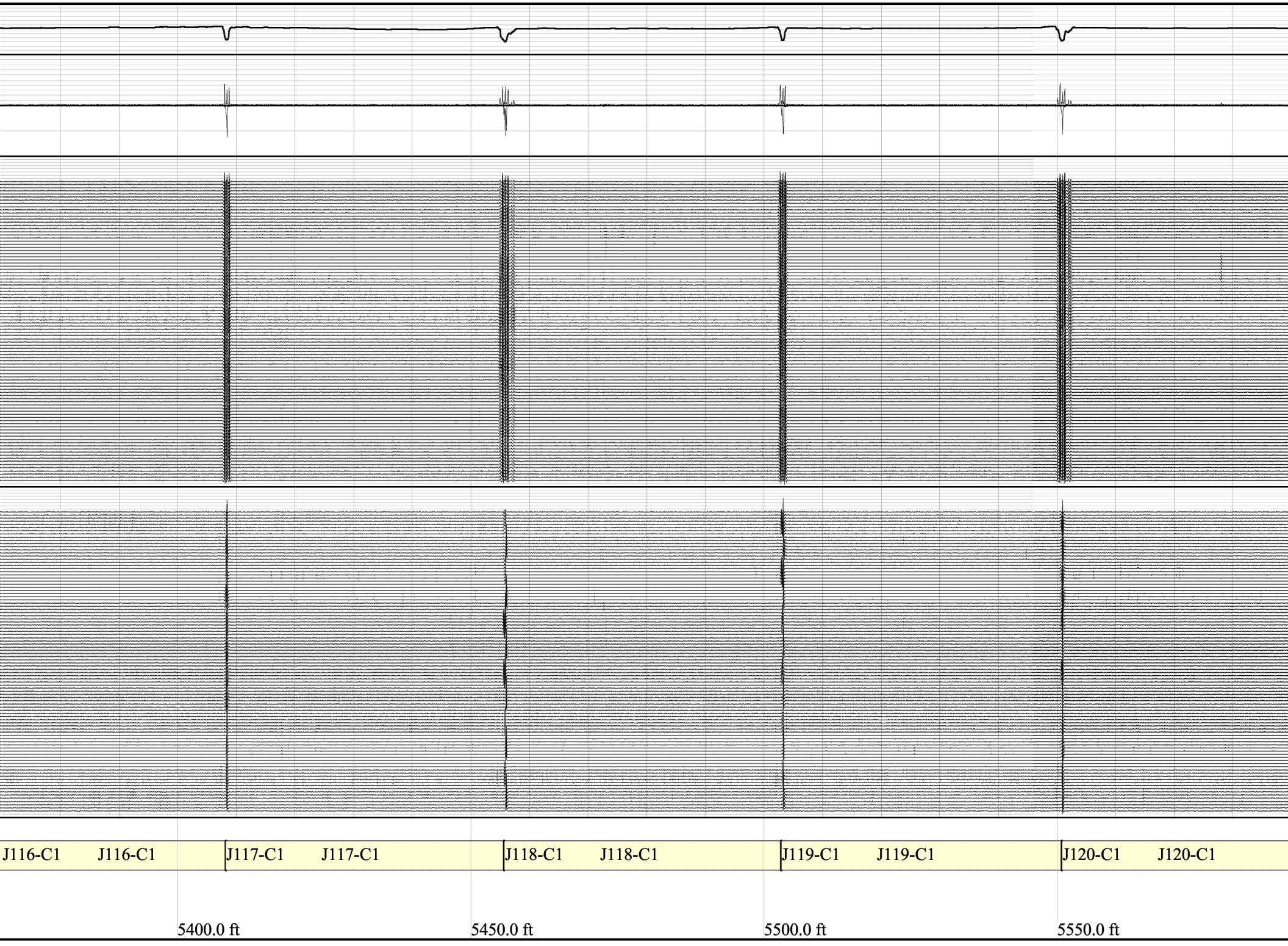
J112-C1
J112-C1
J113-C1
J113-C1
J114-C1
J114-C1
J115-C1
J115-C1
5150.0 ft
5200.0 ft
5250.0 ft
5300.0 ft
5350.0 ft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J117-C1
J117-C1
J118-C1
J118-C1
J119-C1
J119-C1
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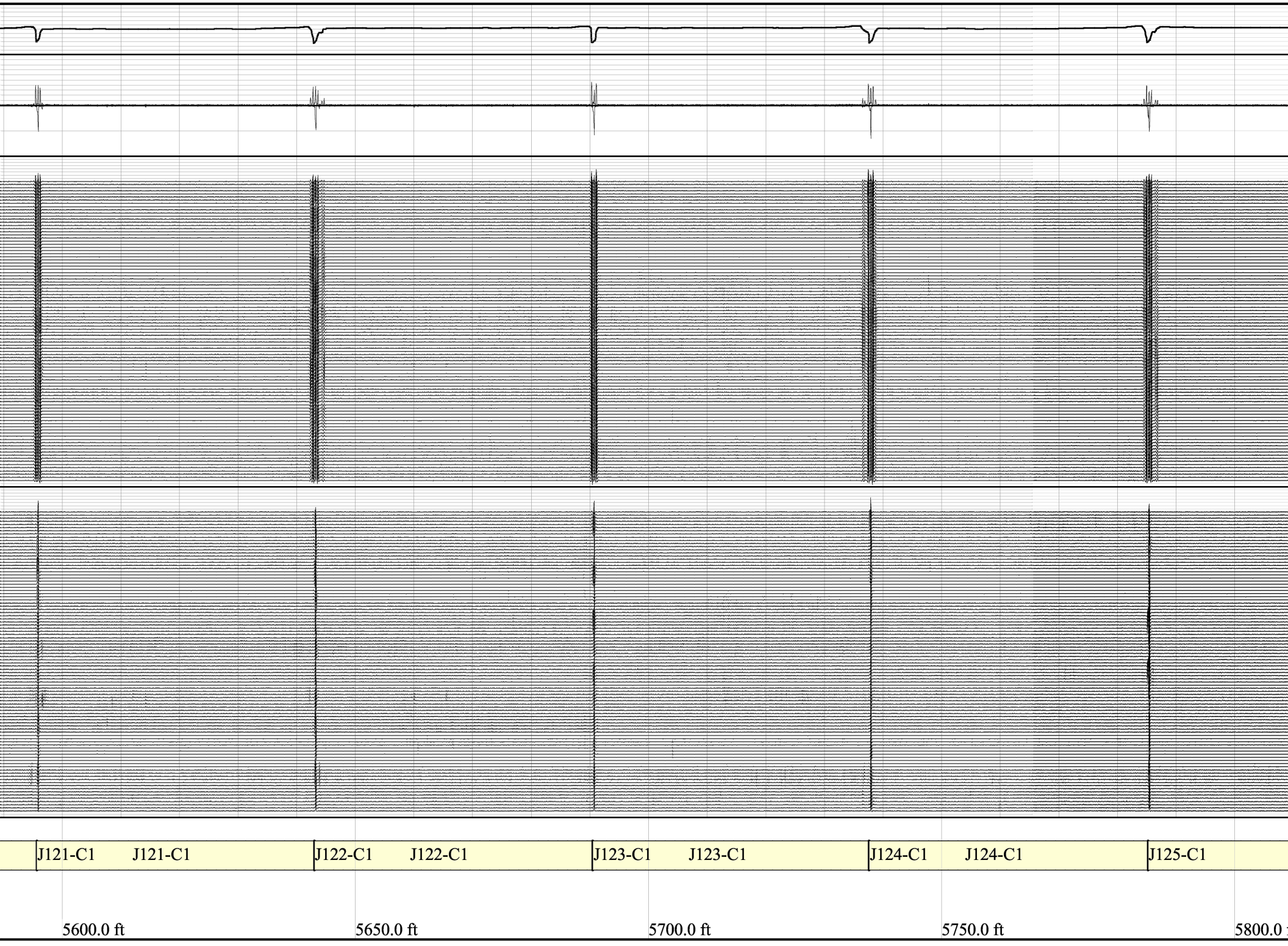
5500.0 ft
5550.0 ft


J121-C1
J121-C1
J122-C1
J122-C1
J123-C1
J123-C1
J124-C1
J124-C1
J125-C1
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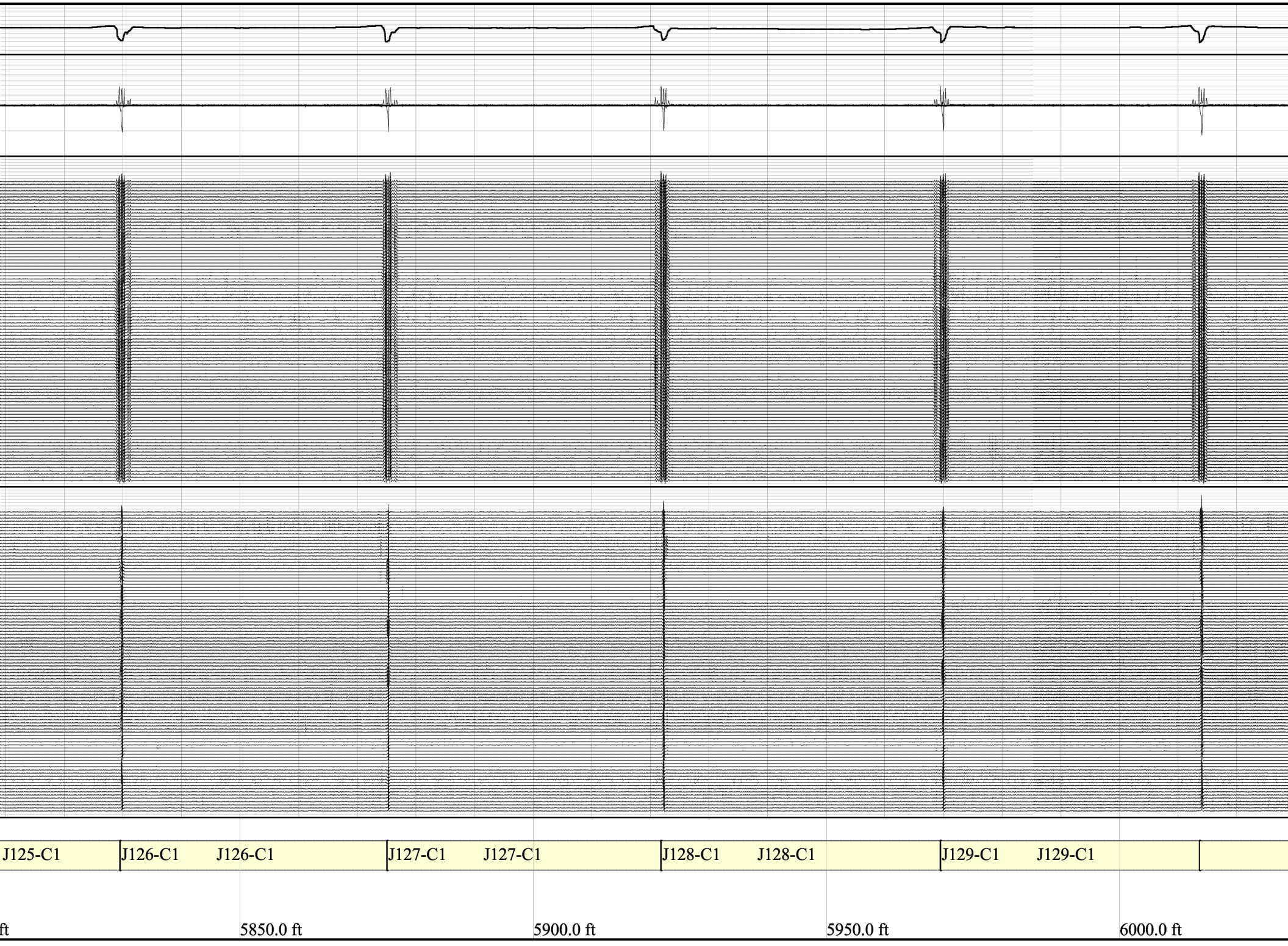
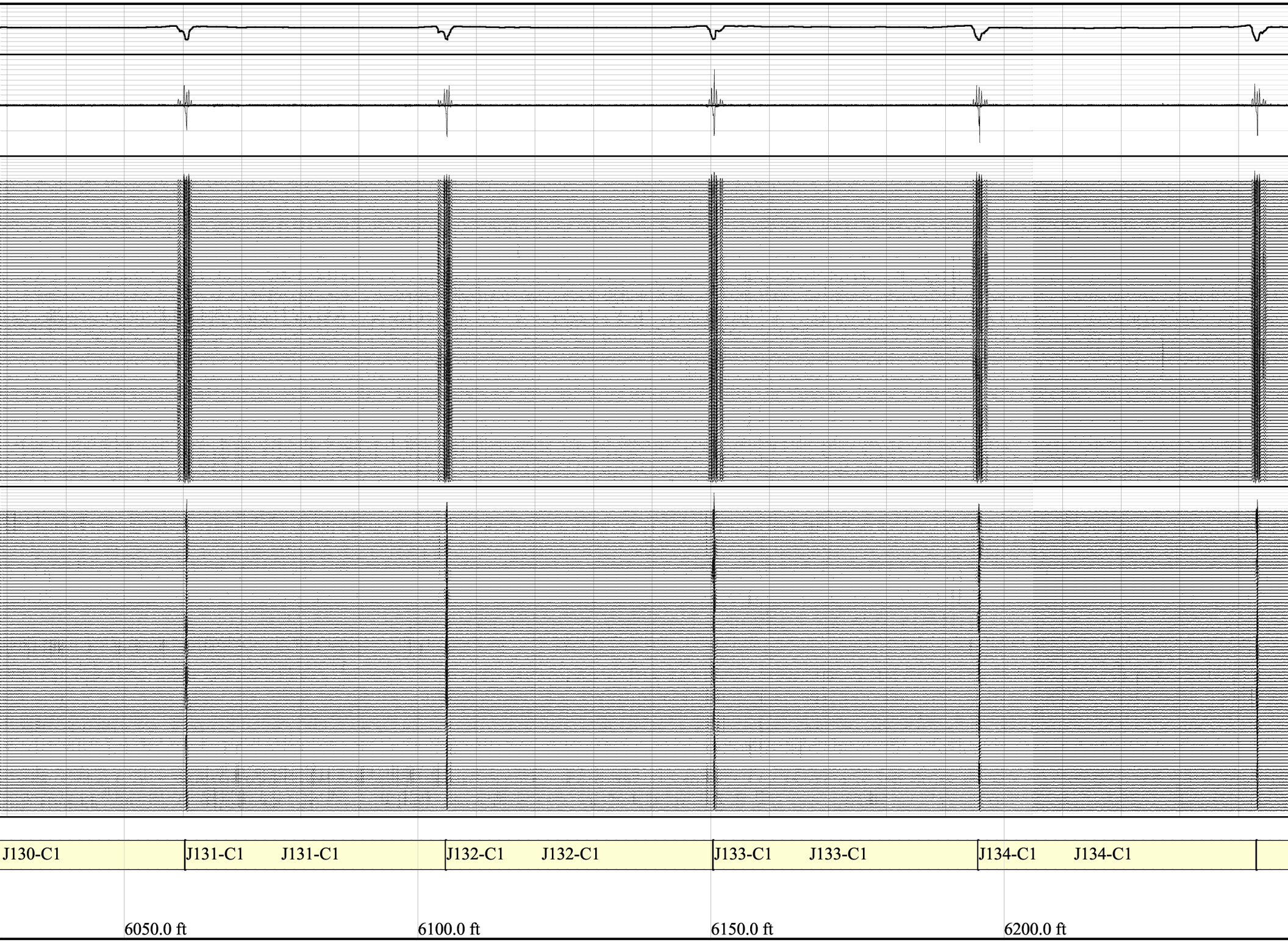
5700.0 ft
5750.0 ft
5800.0


J125-C1
J126-C1
J126-C1
J127-C1
J127-C1
J128-C1
J128-C1
J129-C1
J129-C1
ft
5850.0 ft
5900.0 ft
5950.0 ft
6000.0 ft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J131-C1
J131-C1
J132-C1
J132-C1
J133-C1
J133-C1
J134-C1
J134-C1
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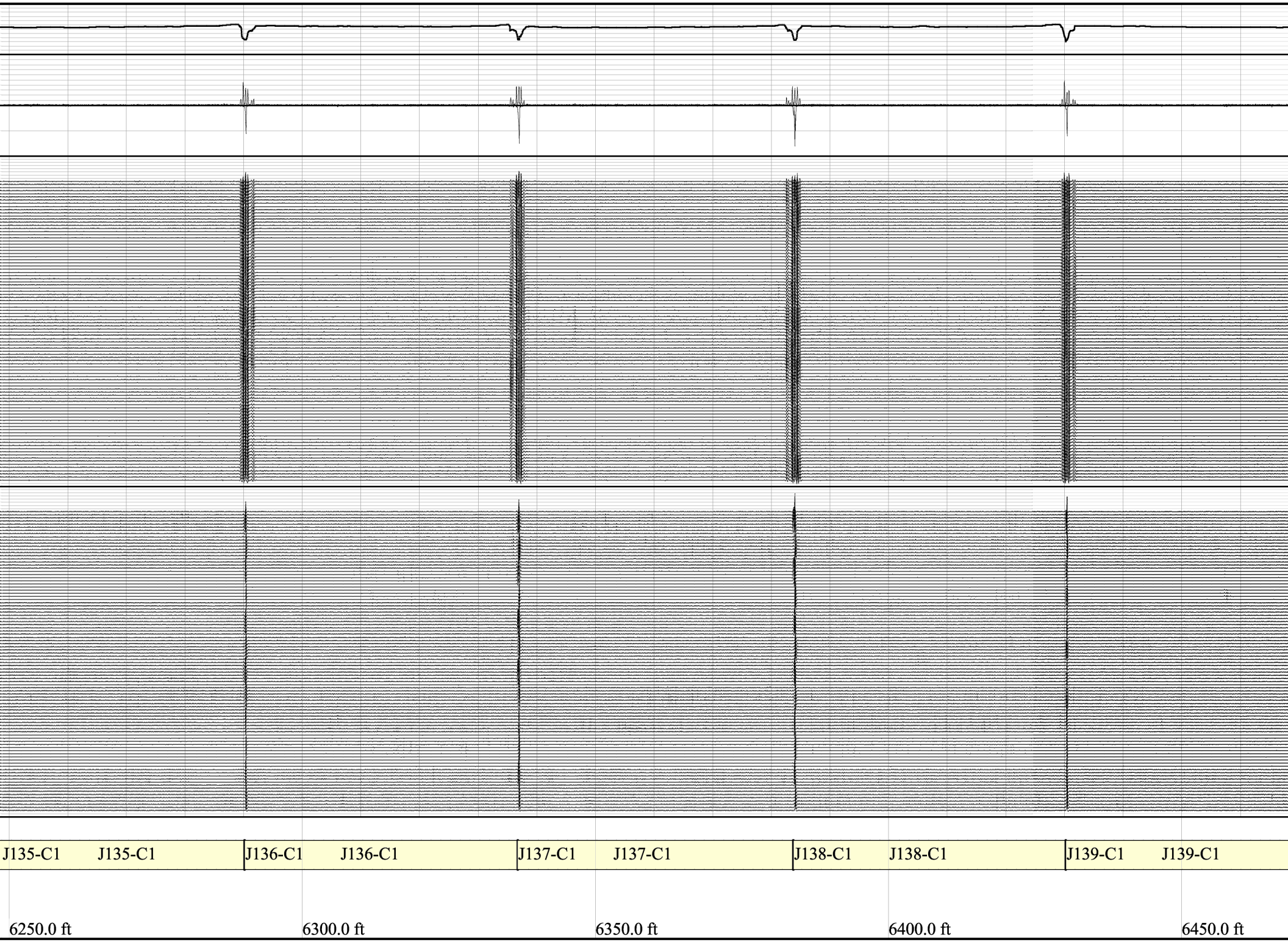
6150.0 ft
6200.0 ft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J136-C1
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J137-C1
J137-C1
J138-C1
J138-C1
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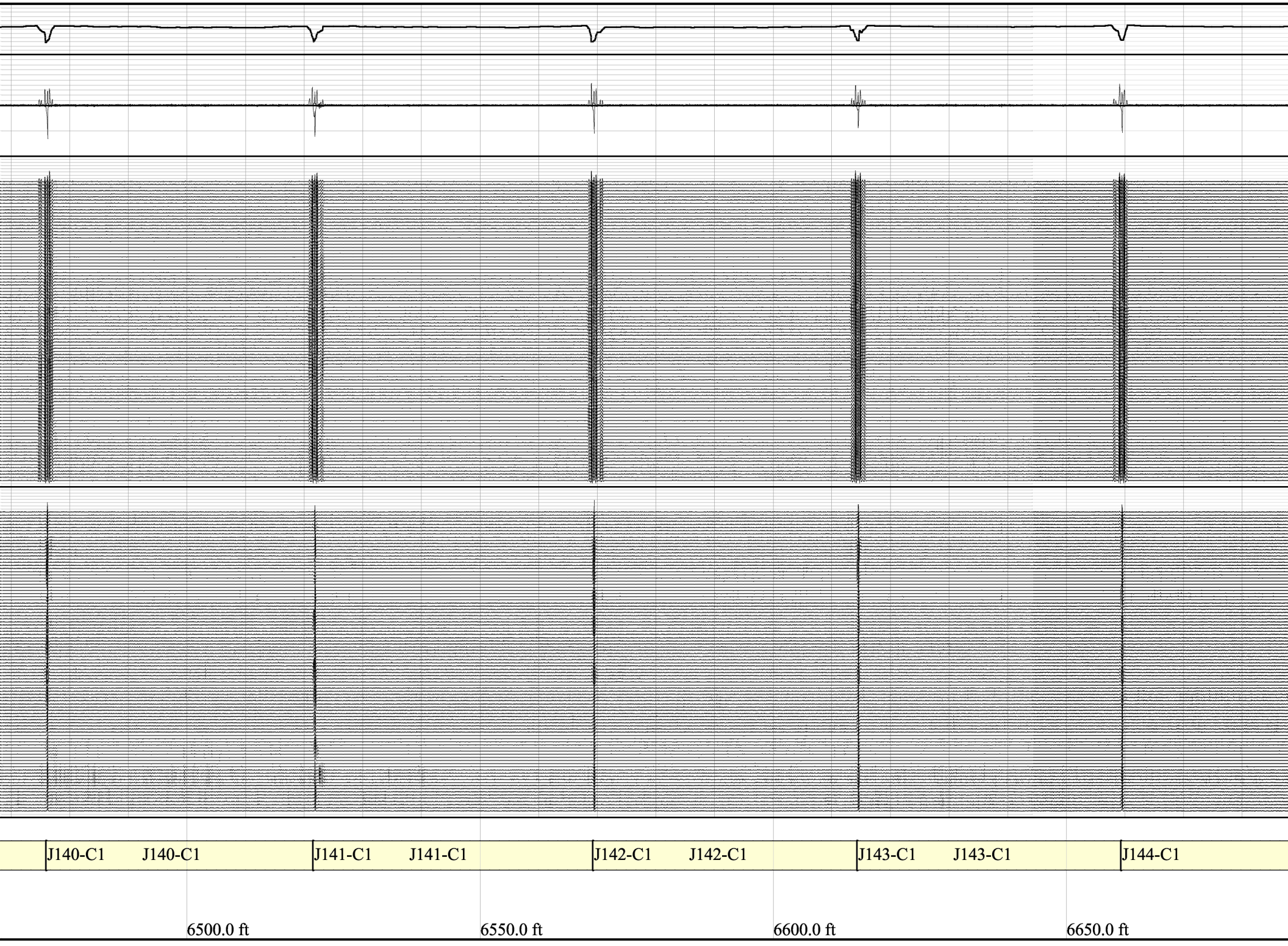
6400.0 ft
6450.0 ft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J141-C1
J142-C1
J142-C1
J143-C1
J143-C1
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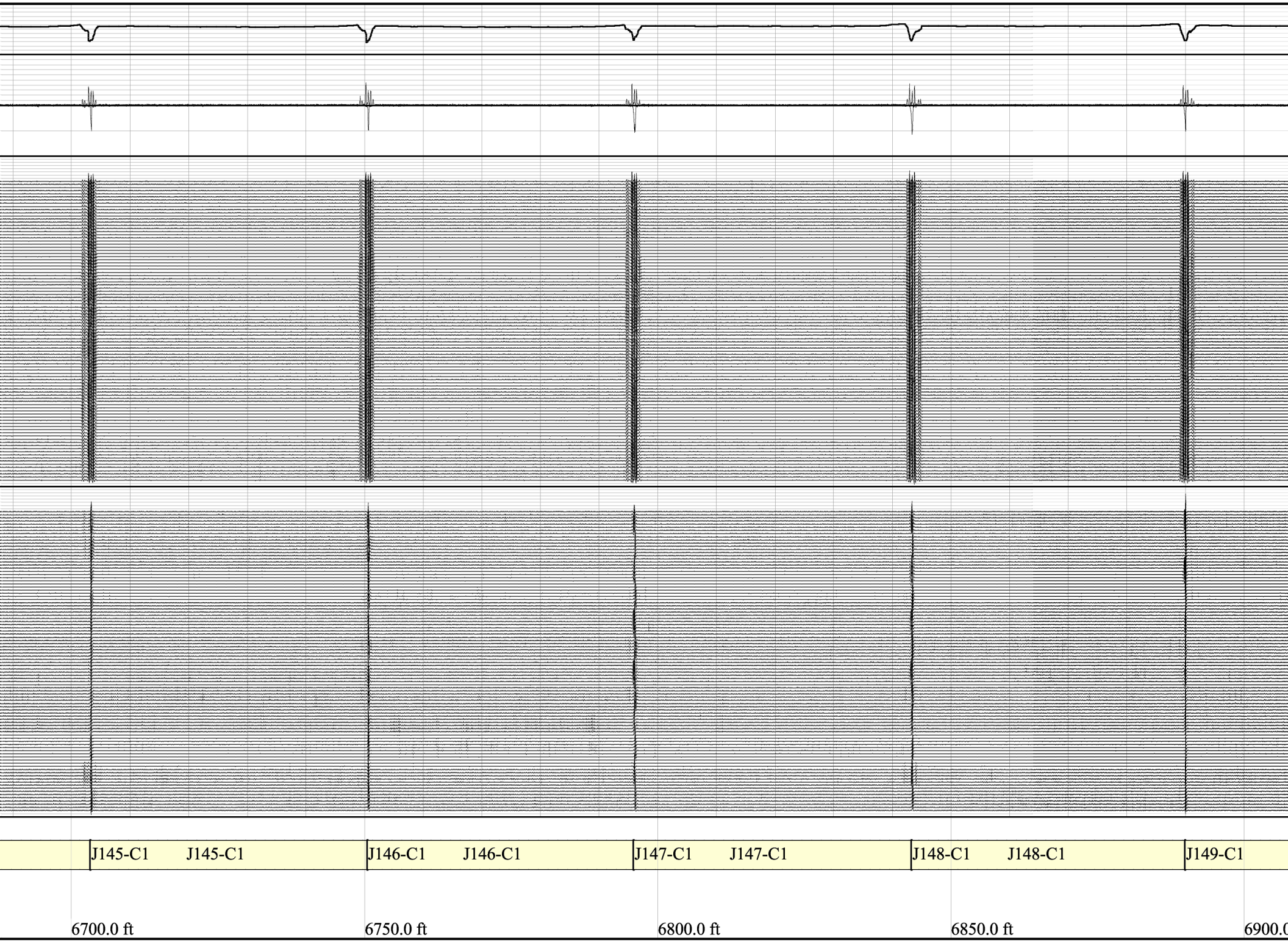
6600.0 ft
6650.0 ft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J145-C1
J146-C1
J146-C1
J147-C1
J147-C1
J148-C1
J148-C1
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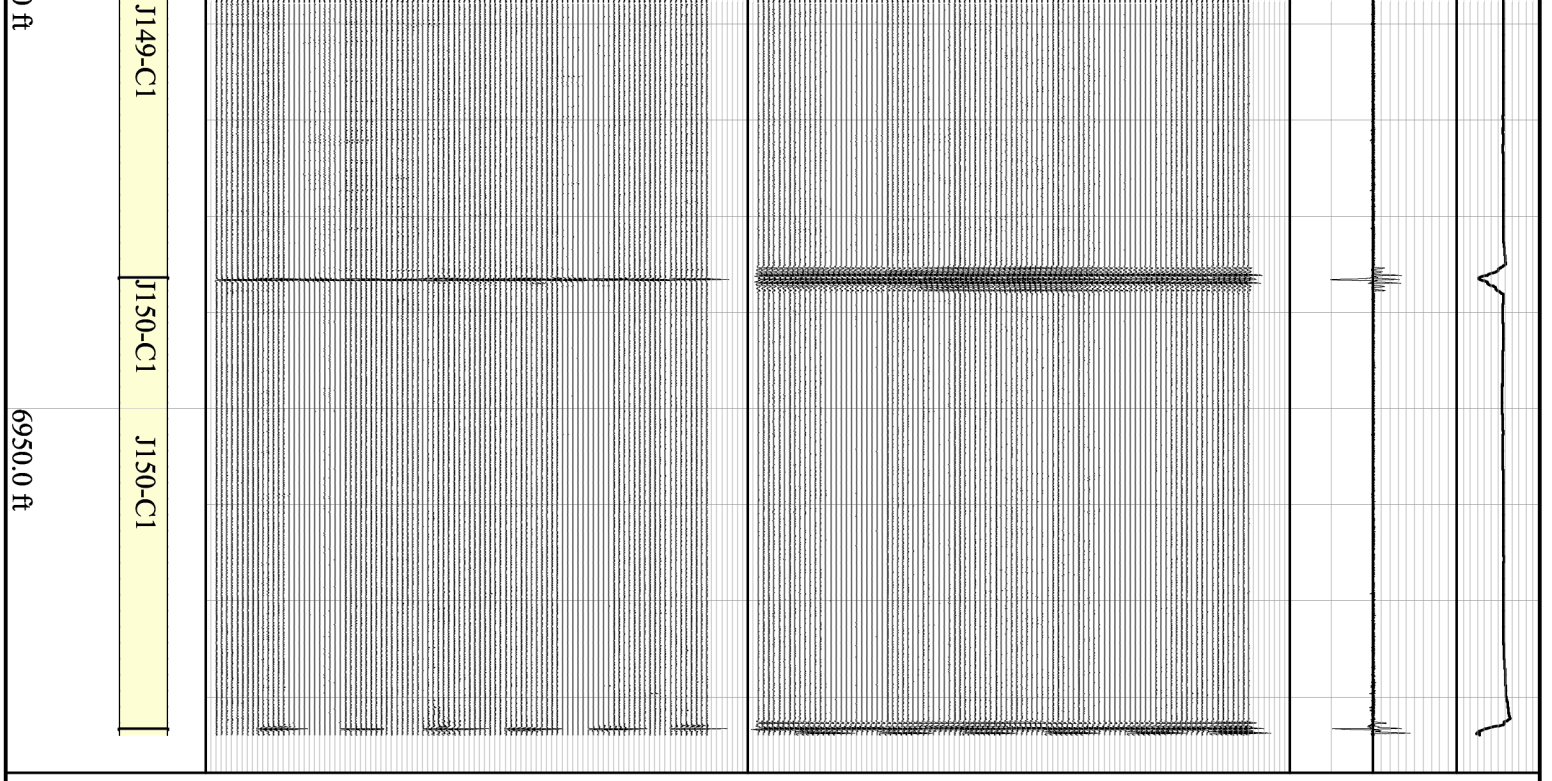
6800.0 ft
6850.0 ft
6900.0



Southern California Gas Company Fernando Fee 38A
File 20160504_142040_RSP_0_0_0_0_0.mvl

Joint Summary

Southern California Gas Company
Aliso Canyon
Fernando Fee 38A

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	39.76	11.76	9.625	0.472	47.0	0			1
JT-2	51.52	47.26	9.625	0.472	47.0	0			1
JT-3	98.78	47.27	9.625	0.472	47.0	0			1
JT-4	146.05	46.65	9.625	0.472	47.0	0			1
JT-5	192.70	47.15	9.625	0.472	47.0	0			1
JT-6	239.85	47.03	9.625	0.472	47.0	0			1
JT-7	286.89	46.58	9.625	0.472	47.0	0			1
JT-8	333.47	47.10	9.625	0.472	47.0	0			1
JT-9	380.57	46.32	9.625	0.472	47.0	0			1
JT-10	426.89	47.45	9.625	0.472	47.0	0			1
JT-11	474.34	47.53	9.625	0.472	47.0	0			1
JT-12	521.87	47.27	9.625	0.472	47.0	0			1
JT-13	569.14	45.86	9.625	0.472	47.0	0			1
JT-14	614.99	46.80	9.625	0.472	47.0	0			1
JT-15	661.79	46.87	9.625	0.472	47.0	0			1
JT-16	708.66	46.81	9.625	0.472	47.0	0			1
JT-17	755.48	46.56	9.625	0.472	47.0	0			1
JT-18	802.03	46.74	9.625	0.472	47.0	0			1
JT-19	848.77	44.53	9.625	0.472	47.0	0			1
JT-20	893.30	47.23	9.625	0.472	47.0	0			1
JT-21	940.53	46.09	9.625	0.472	47.0	0			1
JT-22	986.62	47.18	9.625	0.472	47.0	0			1
JT-23	1033.81	46.48	9.625	0.472	47.0	0			1
JT-24	1080.29	46.51	9.625	0.472	47.0	0			1
JT-25	1126.80	46.25	9.625	0.472	47.0	0			1
JT-26	1173.05	47.28	9.625	0.472	47.0	0			1
JT-27	1220.33	47.15	9.625	0.472	47.0	0			1
JT-28	1267.48	46.41	9.625	0.472	47.0	0			1
JT-29	1313.89	43.56	9.625	0.472	47.0	0			1
JT-30	1357.45	46.25	9.625	0.472	47.0	0			1
JT-31	1403.70	47.22	9.625	0.472	47.0	0			1
JT-32	1450.92	43.62	9.625	0.472	47.0	0			1
JT-33	1494.54	46.17	9.625	0.472	47.0	0			1
JT-34	1540.71	47.32	9.625	0.472	47.0	0			1
JT-35	1588.03	45.49	9.625	0.472	47.0	0			1

JT-36	1633.52	46.12	9.625	0.472	47.0	0	1
JT-37	1679.64	46.09	9.625	0.472	47.0	0	1
JT-38	1725.73	46.30	9.625	0.472	47.0	0	1
JT-39	1772.03	47.24	9.625	0.472	47.0	0	1
JT-40	1819.27	47.32	9.625	0.472	47.0	0	1
JT-41	1866.60	47.41	9.625	0.472	47.0	0	1
JT-42	1914.01	46.81	9.625	0.472	47.0	0	1
JT-43	1960.82	46.53	9.625	0.472	47.0	0	1
JT-44	2007.35	46.63	9.625	0.472	47.0	0	1
JT-45	2053.98	47.44	9.625	0.472	47.0	0	1
JT-46	2101.42	47.23	9.625	0.472	47.0	0	1
JT-47	2148.65	46.17	9.625	0.472	47.0	0	1
JT-48	2194.81	47.23	9.625	0.472	47.0	0	1
JT-49	2242.04	44.13	9.625	0.472	47.0	0	1
JT-50	2286.18	47.06	9.625	0.472	47.0	0	1
JT-51	2333.24	47.00	9.625	0.472	47.0	0	1
JT-52	2380.24	46.47	9.625	0.472	47.0	0	1
JT-53	2426.71	46.88	9.625	0.472	47.0	0	1
JT-54	2473.59	45.81	9.625	0.472	47.0	0	1
JT-55	2519.40	47.47	9.625	0.472	47.0	0	1
JT-56	2566.88	47.38	9.625	0.472	47.0	0	1
JT-57	2614.26	46.37	9.625	0.472	47.0	0	1
JT-58	2660.63	45.86	9.625	0.472	47.0	0	1
JT-59	2706.49	47.51	9.625	0.472	47.0	0	1
JT-60	2754.00	46.86	9.625	0.472	47.0	0	1
JT-61	2800.86	47.14	9.625	0.472	47.0	0	1
JT-62	2848.00	44.61	9.625	0.472	47.0	0	1
JT-63	2892.61	47.39	9.625	0.472	47.0	0	1
JT-64	2940.00	47.35	9.625	0.472	47.0	0	1
JT-65	2987.35	47.50	9.625	0.472	47.0	0	1
JT-66	3034.85	45.82	9.625	0.472	47.0	0	1
JT-67	3080.68	46.84	9.625	0.472	47.0	0	1
JT-68	3127.52	45.52	9.625	0.472	47.0	0	1
JT-69	3173.04	44.14	9.625	0.472	47.0	0	1
JT-70	3217.18	46.27	9.625	0.472	47.0	0	1
JT-71	3263.46	46.14	9.625	0.472	47.0	0	1
JT-72	3309.60	46.82	9.625	0.472	47.0	0	1
JT-73	3356.42	46.65	9.625	0.472	47.0	0	1
JT-74	3403.07	47.22	9.625	0.472	47.0	0	1
JT-75	3450.29	47.25	9.625	0.472	47.0	0	1
JT-76	3497.54	46.86	9.625	0.472	47.0	0	1
JT-77	3544.40	47.37	9.625	0.472	47.0	0	1
JT-78	3591.77	45.63	9.625	0.472	47.0	0	1
JT-79	3637.40	47.14	9.625	0.472	47.0	0	1
JT-80	3684.54	47.03	9.625	0.472	47.0	0	1
JT-81	3731.57	44.87	9.625	0.472	47.0	0	1
JT-82	3776.44	47.46	9.625	0.472	47.0	0	1
JT-83	3823.90	47.22	9.625	0.472	47.0	0	1
JT-84	3871.12	46.43	9.625	0.472	47.0	0	1
JT-85	3917.55	47.14	9.625	0.472	47.0	0	1
JT-86	3964.69	46.51	9.625	0.472	47.0	0	1
JT-87	4011.20	46.12	9.625	0.472	47.0	0	1
JT-88	4057.32	47.48	9.625	0.472	47.0	0	1
JT-89	4104.79	46.73	9.625	0.472	47.0	0	1
JT-90	4151.52	47.08	9.625	0.472	47.0	0	1
JT-91	4198.60	46.35	9.625	0.472	47.0	0	1
JT-92	4244.96	46.49	9.625	0.472	47.0	0	1
JT-93	4291.44	47.28	9.625	0.472	47.0	0	1
JT-94	4338.72	47.08	9.625	0.472	47.0	0	1
JT-95	4385.80	47.28	9.625	0.472	47.0	0	1
JT-96	4433.07	47.01	9.625	0.472	47.0	0	1
JT-97	4480.08	47.23	9.625	0.472	47.0	0	1
JT-98	4527.31	47.15	9.625	0.472	47.0	0	1
JT-99	4574.46	46.48	9.625	0.472	47.0	0	1
JT-100	4620.95	47.02	9.625	0.472	47.0	0	1
JT-101	4667.96	47.10	9.625	0.472	47.0	0	1
JT-102	4715.07	46.16	9.625	0.472	47.0	0	1
JT-103	4761.23	46.19	9.625	0.472	47.0	0	1
JT-104	4807.41	46.11	9.625	0.472	47.0	0	1
JT-105	4853.53	47.32	9.625	0.472	47.0	0	1
JT-106	4900.84	47.30	9.625	0.472	47.0	0	1
JT-107	4948.14	47.24	9.625	0.472	47.0	0	1
JT-108	4995.38	47.23	9.625	0.472	47.0	0	1
JT-109	5042.61	46.28	9.625	0.472	47.0	0	1
JT-110	5088.89	47.70	9.625	0.472	47.0	0	1
JT-111	5136.59	45.38	9.625	0.472	47.0	0	1
JT-112	5181.96	45.17	9.625	0.472	47.0	0	1
JT-113	5227.13	46.59	9.625	0.472	47.0	0	1
JT-114	5273.73	45.67	9.625	0.472	47.0	0	1
JT-115	5319.39	43.51	9.625	0.472	47.0	0	1
JT-116	5362.90	45.37	9.625	0.472	47.0	0	1
JT-117	5408.26	47.48	9.625	0.472	47.0	0	1
JT-118	5455.75	47.26	9.625	0.472	47.0	0	1
JT-119	5503.01	47.86	9.625	0.472	47.0	0	1
JT-120	5550.86	44.85	9.625	0.472	47.0	0	1

JT-121	5595.71	47.36	9.625	0.472	47.0	0	1
JT-122	5643.07	47.46	9.625	0.472	47.0	0	1
JT-123	5690.53	47.13	9.625	0.472	47.0	0	1
JT-124	5737.67	47.57	9.625	0.472	47.0	0	1
JT-125	5785.23	44.43	9.625	0.472	47.0	0	1
JT-126	5829.66	45.51	9.625	0.472	47.0	0	1
JT-127	5875.17	46.80	9.625	0.472	47.0	0	1
JT-128	5921.97	47.68	9.625	0.472	47.0	0	1
JT-129	5969.65	44.14	9.625	0.472	47.0	0	1
JT-130	6013.79	46.62	9.625	0.472	47.0	0	1
JT-131	6060.42	44.44	9.625	0.472	47.0	0	1
JT-132	6104.86	45.62	9.625	0.472	47.0	0	1
JT-133	6150.47	45.18	9.625	0.472	47.0	0	1
JT-134	6195.65	47.48	9.625	0.472	47.0	0	1
JT-135	6243.13	47.12	9.625	0.472	47.0	0	1
JT-136	6290.25	46.50	9.625	0.472	47.0	0	1
JT-137	6336.76	47.03	9.625	0.472	47.0	0	1
JT-138	6383.78	46.50	9.625	0.472	47.0	0	1
JT-139	6430.28	45.79	9.625	0.472	47.0	0	1
JT-140	6476.08	45.59	9.625	0.472	47.0	0	1
JT-141	6521.66	47.68	9.625	0.472	47.0	0	1
JT-142	6569.34	45.07	9.625	0.472	47.0	0	1
JT-143	6614.41	45.00	9.625	0.472	47.0	0	1
JT-144	6659.41	43.86	9.625	0.472	47.0	0	1
JT-145	6703.27	47.26	9.625	0.472	47.0	0	1
JT-146	6750.53	45.40	9.625	0.472	47.0	0	1
JT-147	6795.93	47.43	9.625	0.472	47.0	0	1
JT-148	6843.36	46.63	9.625	0.472	47.0	0	1
JT-149	6889.99	46.49	9.625	0.472	47.0	0	1
JT-150	6936.48	46.93	9.625	0.472	47.0	0	1
JT-151	6983.41	0.57	9.625	0.472	47.0	0	1