HR Vertilog

Magnetic Flux Leakage Inspection

Advanced Analysis

Company	Southern California Gas Co.
Well	Porter 72A
Field	Aliso Canyon
County	Los Angeles
State	California
Location:	

Section 27	Township 3N	Range 16W	

Date	May. 19, 2016
Service Order	US107397J
Recorded by	J. Stephens
Witnessed by	Mr. McMahon
API Serial No.	

Permanent Datum:	G.L.	Elevation: 1909.000 ft.	Depth	0.000
Log Measured From:	K.B.	0.000 ft. above Perm. Datum	Btm. Log Interval	6783.650
Drilling Measured From:	K.B.	0.000 ft. above Perm. Datum	Top Log Interval	26.860
			Fluid Type	Water

Casing Data

Size	Weight	Grade	From	To	Length
13.375"	54.5#		0	814'	814.0
9.625"	47#	N-80	0	6869'	6869.0
5.5"	17#		0	7170'	7170.0

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
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
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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.

Interpretation

27.96 ft Hardware - External casing head response
818.25 ft Hardware - Bottom of Ext. 13 3/8" CSG
930.57 ft Collar - Anomalous
1452.49 ft Metal Loss Cluster--The metal mass change of the coupling could have an adverse effect on the metal loss calculation of this feature.
1452.52 ft Metal Loss Call Box--The metal mass change of the coupling could have an adverse effect on the metal loss calculation of this feature.
1494.78 ft Collar--Collars identified as anomalous have apparent metal loss features at the edges of the makeup region and accurate metal loss cannot be qualified.
1709.69 ft Hardware - Centralizer
1789.88 ft Hardware - Centralizer
1870.10 ft Hardware - Centralizer
1957.93 ft Hardware - Centralizer
2044.61 ft Hardware - Centralizer
2133.14 ft Hardware - Centralizer
2223.15 ft Hardware - Centralizer
2311.39 ft Hardware - Centralizer
2401.09 ft Hardware - Centralizer
2493.27 ft Hardware - Centralizer
2569.56 ft Hardware - Centralizer
2650.75 ft Hardware - Centralizer
2735.18 ft Hardware - Centralizer
2824.83 ft Hardware - Centralizer
2904.75 ft Hardware - Centralizer
2987.78 ft Hardware - Centralizer
3092.01 ft Hardware - Centralizer
3189.62 ft Hardware - Centralizer

3180.62 ft Hardware - Centralizer
3267.96 ft Hardware - Centralizer
3353.67 ft Hardware - Centralizer
3437.27 ft Hardware - Centralizer
3519.53 ft Hardware - Centralizer
3608.67 ft Hardware - Centralizer
3692.61 ft Hardware - Centralizer
3774.43 ft Hardware - Centralizer
3861.43 ft Hardware - Centralizer
3947.72 ft Hardware - Centralizer
4037.49 ft Hardware - Centralizer
4117.25 ft Hardware - Centralizer
4199.51 ft Hardware - Centralizer
4288.43 ft Hardware - Centralizer
4372.25 ft Hardware - Centralizer
4452.35 ft Hardware - Centralizer
4535.51 ft Hardware - Centralizer
4699.40 ft Hardware - Centralizer
4779.52 ft Hardware - Centralizer
4868.23 ft Hardware - Centralizer
4958.41 ft Hardware - Centralizer
5047.97 ft Hardware - Centralizer
5136.34 ft Hardware - Centralizer
5221.10 ft Hardware - Centralizer
5265.55 ft Hardware - Centralizer
5308.17 ft Hardware - Centralizer
5351.90 ft Hardware - Centralizer
5397.80 ft Hardware - Centralizer
5441.04 ft Hardware - Centralizer
5484.30 ft Hardware - Centralizer
5527.83 ft Hardware - Centralizer
5573.27 ft Hardware - Centralizer
5619.60 ft Hardware - Centralizer
5663.09 ft Hardware - Centralizer
5708.22 ft Hardware - Centralizer
5752.65 ft Hardware - Centralizer
5798.08 ft Hardware - Centralizer
5841.97 ft Hardware - Centralizer
5926.62 ft Hardware - Centralizer
6014.83 ft Hardware - Centralizer
6060.29 ft Hardware - Centralizer
6144.44 ft Hardware - Centralizer
6226.68 ft Hardware - Centralizer
6313.61 ft Hardware - Centralizer
6395.18 ft Hardware - Centralizer
6434.98 ft Hardware - Centralizer
6479.02 ft Hardware - Centralizer
6522.31 ft Hardware - Centralizer
6566.03 ft Hardware - Centralizer
6610.53 ft Hardware - Centralizer
6625.52 ft Hardware - Centralizer
6669.93 ft Hardware - Centralizer
6683.75 ft Hardware - Centralizer
6690.90 ft Hardware - Centralizer
6703.78 ft Hardware - Centralizer
6714.20 ft Hardware - Centralizer
6727.51 ft Hardware - Centralizer
6736.55 ft Hardware - Centralizer
6748.71 ft Hardware - Centralizer
6758.43 ft Hardware - Centralizer
6771.37 ft Hardware - Centralizer
6773.20 ft Hardware - Centralizer
6781.90 ft Hardware - Centralizer

Analyst: J. Waak
QC: R. Foster

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	ID/OD
1	26.86	34.92	8.06	Class 1	-	-	-
2	34.92	75.04	40.12	Class 1	-	-	-
3	75.04	115.31	40.27	Class 1	-	-	-
4	115.31	155.30	39.99	Class 1	-	-	-
5	155.30	195.44	40.14	Class 1	-	-	-
6	195.44	235.48	40.04	Class 1	-	-	-
7	235.48	275.38	39.90	Class 1	-	-	-
8	275.38	315.38	40.00	Class 1	-	-	-
9	315.38	355.44	40.06	Class 1	-	-	-
10	355.44	398.49	43.05	Class 1	-	-	-
11	398.49	438.63	40.14	Class 1	-	-	-
12	438.63	482.64	44.01	Class 1	-	-	-
13	482.64	527.32	44.68	Class 1	-	-	-
14	527.32	570.67	43.35	Class 1	-	-	-
15	570.67	616.34	45.67	Class 1	-	-	-
16	616.34	661.66	45.32	Class 1	-	-	-
17	661.66	704.77	43.11	Class 1	-	-	-
18	704.77	749.20	44.43	Class 1	-	-	-
19	749.20	793.35	44.15	Class 1	-	-	-
20	793.35	839.80	46.45	Class 2	28.0%	829.45	OD
21	839.80	885.49	45.69	Class 2	21.0%	846.69	OD
22	885.49	930.57	45.08	Class 2	20.0%	886.79	OD
23	930.57	973.34	42.77	Class 2	38.0%	934.25	OD
24	973.34	1017.51	44.17	Class 2	20.0%	988.96	OD
25	1017.51	1062.14	44.63	Class 3	54.0%	1033.64	OD
26	1062.14	1108.31	46.17	Class 3	52.0%	1076.73	OD
27	1108.31	1153.94	45.63	Class 1	-	-	-
28	1153.94	1197.05	43.11	Class 1	-	-	-
29	1197.05	1240.64	43.59	Class 1	19.0%	1225.54	OD
30	1240.64	1283.81	43.17	Class 2	32.0%	1248.68	OD
31	1283.81	1327.86	44.05	Class 2	24.0%	1293.24	OD
32	1327.86	1367.75	39.89	Class 3	44.0%	1333.46	OD
33	1367.75	1407.65	39.90	Class 2	21.0%	1395.93	OD
34	1407.65	1451.79	44.14	Class 3	45.0%	1434.40	OD
35	1451.79	1494.78	42.99	Class 3	56.0%	1452.66	OD
36	1494.78	1534.87	40.09	Class 3	47.0%	1495.88	OD
37	1534.87	1574.79	39.92	Class 2	30.0%	1537.34	OD
38	1574.79	1621.23	46.44	Class 2	21.0%	1576.79	OD
39	1621.23	1664.42	43.19	Class 3	49.0%	1641.47	OD
40	1664.42	1709.62	45.20	Class 2	24.0%	1665.12	ID
41	1709.62	1749.90	40.28	Class 2	31.0%	1714.92	OD
42	1749.90	1789.78	39.88	Class 1	-	-	-
43	1789.78	1829.86	40.08	Class 1	-	-	-
44	1829.86	1869.95	40.09	Class 1	-	-	-
45	1869.95	1914.20	44.25	Class 2	21.0%	1899.68	OD
46	1914.20	1957.88	43.68	Class 1	-	-	-
47	1957.88	2001.05	43.17	Class 1	-	-	-
48	2001.05	2044.51	43.46	Class 1	-	-	-
49	2044.51	2089.23	44.72	Class 1	-	-	-
50	2089.23	2133.10	43.87	Class 1	-	-	-

51	2133.10	2177.87	44.77	Class	1	-	-	-
52	2177.87	2223.16	45.29	Class	1	-	-	-
53	2223.16	2268.07	44.91	Class	1	-	-	-
54	2268.07	2311.30	43.23	Class	1	-	-	-
55	2311.30	2356.40	45.10	Class	1	-	-	-
56	2356.40	2401.12	44.72	Class	1	-	-	-
57	2401.12	2446.92	45.80	Class	1	-	-	-
58	2446.92	2493.24	46.32	Class	1	-	-	-
59	2493.24	2528.67	35.43	Class	1	-	-	-
60	2528.67	2569.66	40.99	Class	1	-	-	-
61	2569.66	2611.28	41.62	Class	1	-	-	-
62	2611.28	2650.71	39.43	Class	1	-	-	-
63	2650.71	2695.31	44.60	Class	1	-	-	-
64	2695.31	2735.27	39.96	Class	1	-	-	-
65	2735.27	2780.19	44.92	Class	1	-	-	-
66	2780.19	2824.82	44.63	Class	1	-	-	-
67	2824.82	2864.74	39.92	Class	1	-	-	-
68	2864.74	2904.73	39.99	Class	1	-	-	-
69	2904.73	2944.75	40.02	Class	1	-	-	-
70	2944.75	2987.77	43.02	Class	1	-	-	-
71	2987.77	3002.40	14.63	Class	1	-	-	-
72	3002.40	3047.63	45.23	Class	1	-	-	-
73	3047.63	3092.01	44.38	Class	1	-	-	-
74	3092.01	3135.81	43.80	Class	1	-	-	-
75	3135.81	3180.65	44.84	Class	1	-	-	-
76	3180.65	3224.07	43.42	Class	1	-	-	-
77	3224.07	3267.97	43.90	Class	1	-	-	-
78	3267.97	3309.83	41.86	Class	1	-	-	-
79	3309.83	3353.71	43.88	Class	1	-	-	-
80	3353.71	3393.62	39.91	Class	1	-	-	-
81	3393.62	3437.25	43.63	Class	1	-	-	-
82	3437.25	3479.07	41.82	Class	1	-	-	-
83	3479.07	3519.56	40.49	Class	1	-	-	-
84	3519.56	3565.47	45.91	Class	1	-	-	-
85	3565.47	3608.63	43.16	Class	1	-	-	-
86	3608.63	3652.37	43.74	Class	1	-	-	-
87	3652.37	3692.64	40.27	Class	1	-	-	-
88	3692.64	3732.50	39.86	Class	1	-	-	-
89	3732.50	3774.43	41.93	Class	1	-	-	-
90	3774.43	3819.20	44.77	Class	1	-	-	-
91	3819.20	3861.37	42.17	Class	1	-	-	-
92	3861.37	3904.89	43.52	Class	1	-	-	-
93	3904.89	3947.81	42.92	Class	1	-	-	-
94	3947.81	3992.95	45.14	Class	1	-	-	-
95	3992.95	4037.53	44.58	Class	1	-	-	-
96	4037.53	4077.52	39.99	Class	1	-	-	-
97	4077.52	4117.22	39.70	Class	1	-	-	-
98	4117.22	4153.58	36.36	Class	1	-	-	-
99	4153.58	4199.55	45.97	Class	1	-	-	-
100	4199.55	4243.18	43.63	Class	1	-	-	-
101	4243.18	4288.44	45.26	Class	1	-	-	-
102	4288.44	4331.95	43.51	Class	1	-	-	-
103	4331.95	4372.25	40.30	Class	1	-	-	-
104	4372.25	4412.29	40.04	Class	1	-	-	-
105	4412.29	4452.32	40.03	Class	1	-	-	-
106	4452.32	4495.53	43.21	Class	2	36.0%	4488.87	OD
107	4495.53	4535.42	39.89	Class	2	23.0%	4496.49	OD
108	4535.42	4579.39	43.97	Class	1	-	-	-
109	4579.39	4619.73	40.34	Class	1	-	-	-
110	4619.73	4659.66	39.93	Class	1	-	-	-
111	4659.66	4699.44	39.78	Class	1	-	-	-
112	4699.44	4739.53	40.09	Class	1	-	-	-

113	4739.53	4779.43	39.90	Class	1	20.0%	4778.11	OD
114	4779.43	4823.73	44.30	Class	1	-	-	-
115	4823.73	4868.20	44.47	Class	1	-	-	-
116	4868.20	4913.01	44.81	Class	1	-	-	-
117	4913.01	4958.41	45.40	Class	1	-	-	-
118	4958.41	5003.14	44.73	Class	1	-	-	-
119	5003.14	5048.02	44.88	Class	1	-	-	-
120	5048.02	5093.79	45.77	Class	1	-	-	-
121	5093.79	5136.34	42.55	Class	1	-	-	-
122	5136.34	5179.54	43.20	Class	1	-	-	-
123	5179.54	5221.13	41.59	Class	1	-	-	-
124	5221.13	5265.51	44.38	Class	1	-	-	-
125	5265.51	5308.23	42.72	Class	1	-	-	-
126	5308.23	5351.96	43.73	Class	1	-	-	-
127	5351.96	5397.83	45.87	Class	1	-	-	-
128	5397.83	5440.98	43.15	Class	1	-	-	-
129	5440.98	5484.33	43.35	Class	1	-	-	-
130	5484.33	5527.80	43.47	Class	1	-	-	-
131	5527.80	5573.30	45.50	Class	1	-	-	-
132	5573.30	5619.57	46.27	Class	1	-	-	-
133	5619.57	5663.13	43.56	Class	1	-	-	-
134	5663.13	5708.23	45.10	Class	1	-	-	-
135	5708.23	5752.67	44.44	Class	1	-	-	-
136	5752.67	5798.12	45.45	Class	1	-	-	-
137	5798.12	5841.97	43.85	Class	1	-	-	-
138	5841.97	5886.20	44.23	Class	1	-	-	-
139	5886.20	5926.59	40.39	Class	1	-	-	-
140	5926.59	5970.60	44.01	Class	1	-	-	-
141	5970.60	6014.93	44.33	Class	1	-	-	-
142	6014.93	6060.34	45.41	Class	1	-	-	-
143	6060.34	6103.72	43.38	Class	1	-	-	-
144	6103.72	6144.51	40.79	Class	1	-	-	-
145	6144.51	6184.91	40.40	Class	1	-	-	-
146	6184.91	6226.73	41.82	Class	1	-	-	-
147	6226.73	6269.73	43.00	Class	1	-	-	-
148	6269.73	6313.68	43.95	Class	1	-	-	-
149	6313.68	6354.41	40.73	Class	1	-	-	-
150	6354.41	6395.24	40.83	Class	1	-	-	-
151	6395.24	6435.08	39.84	Class	1	-	-	-
152	6435.08	6478.94	43.86	Class	1	-	-	-
153	6478.94	6522.19	43.25	Class	1	-	-	-
154	6522.19	6566.09	43.90	Class	1	-	-	-
155	6566.09	6610.56	44.47	Class	1	-	-	-
156	6610.56	6625.54	14.98	Class	1	-	-	-
157	6625.54	6669.98	44.44	Class	1	-	-	-
158	6669.98	6714.19	44.21	Class	1	-	-	-
159	6714.19	6758.49	44.30	Class	1	-	-	-
160	6758.49	6783.65	25.16	Class	1	-	-	-

Southern California Gas Co. Porter 72A

File 20160519_15572B_RSP_0_0_0_0_0_0.mvl

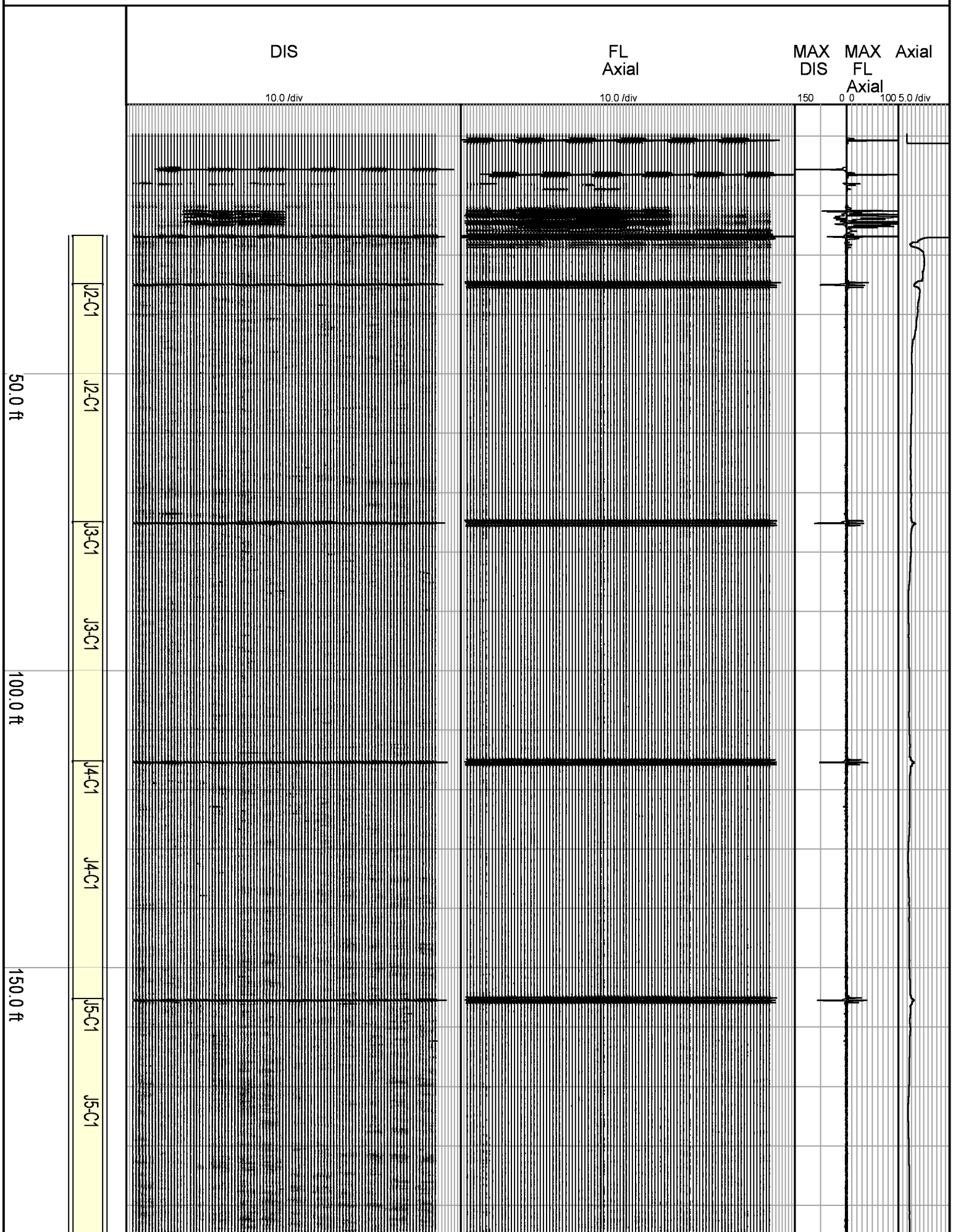
9 5/8" MAIN SECTION
5" / 100'

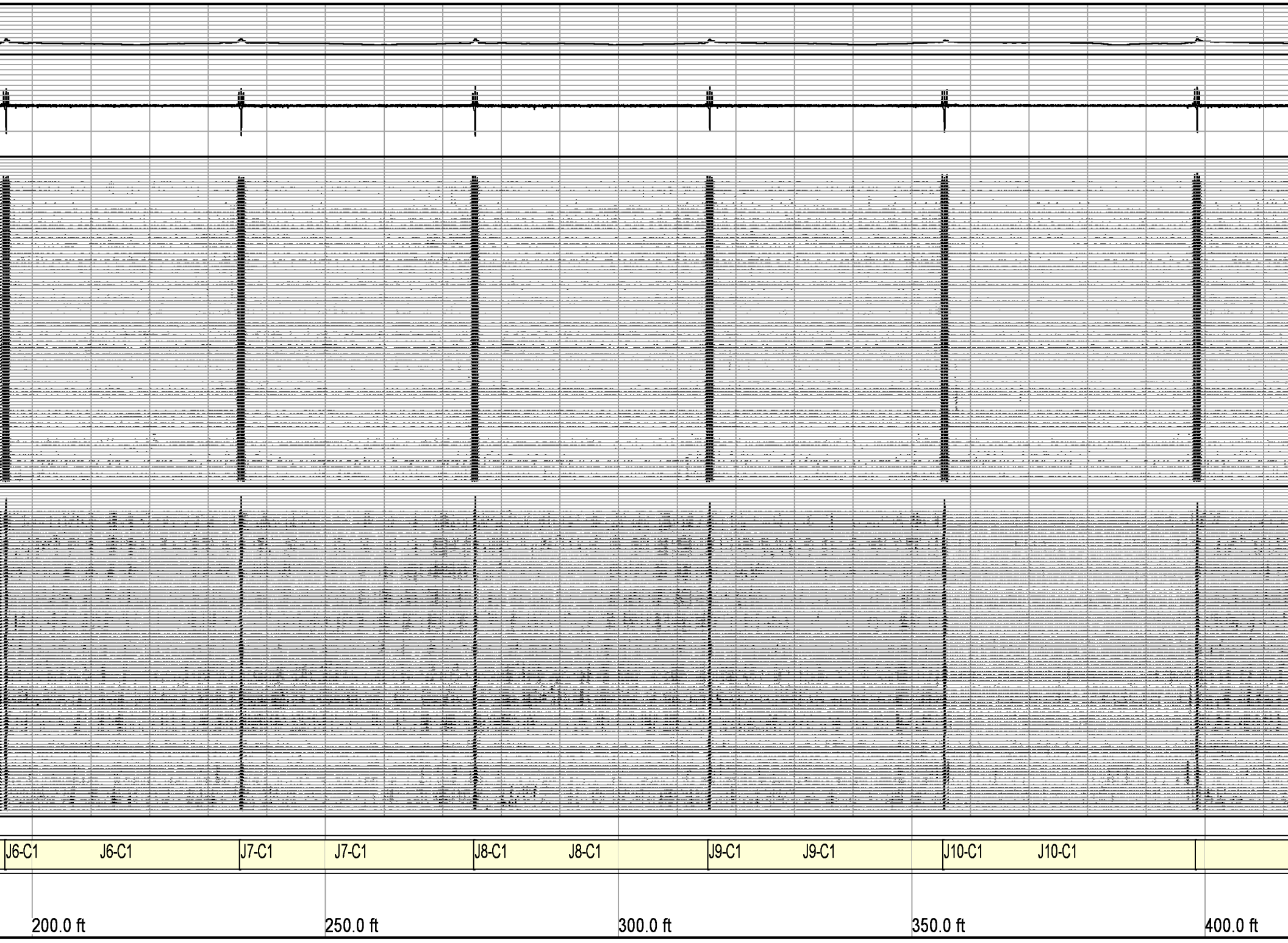
Class 1
0 - 20%

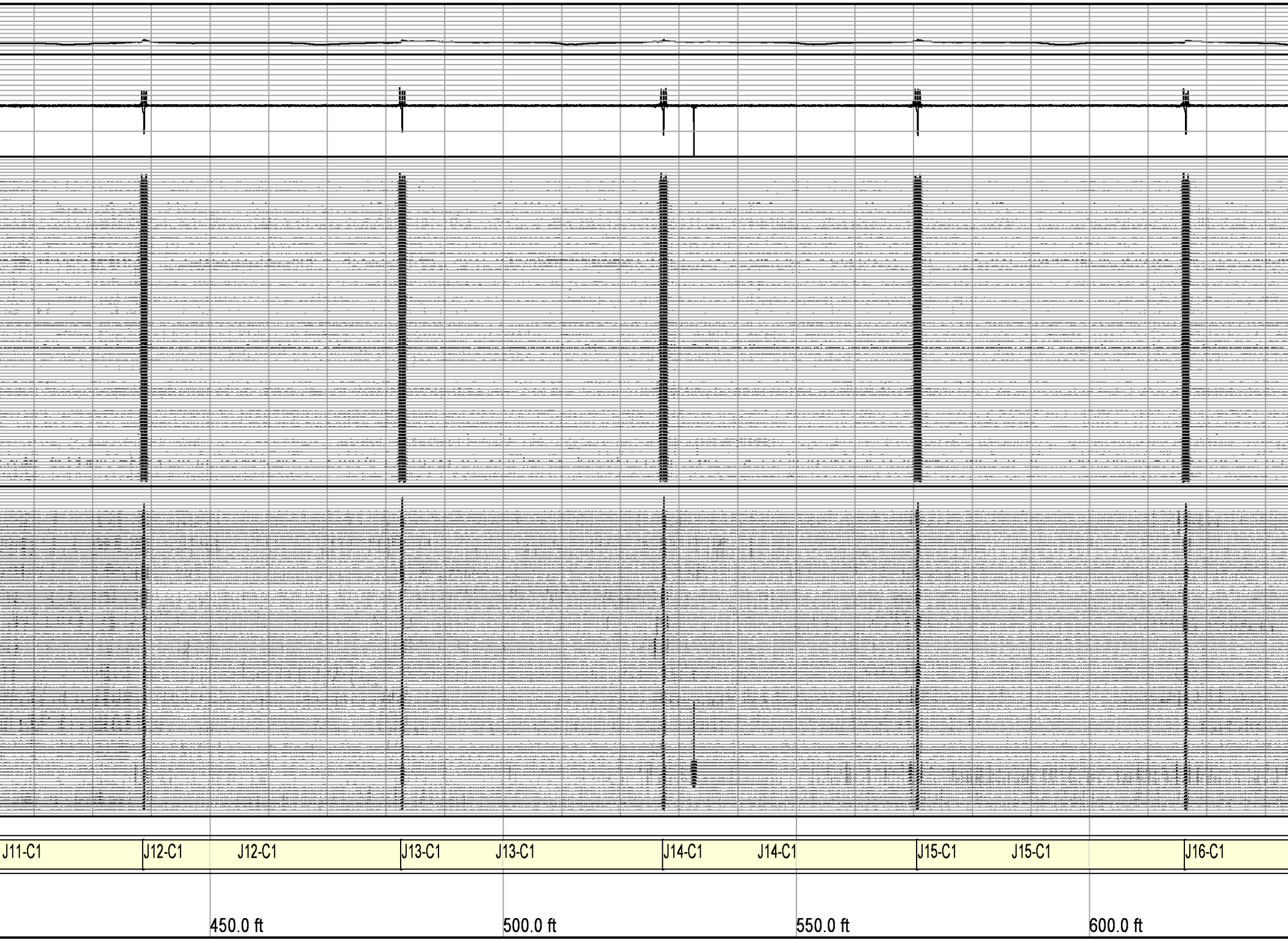
Class 2
20 - 40%

Class 3
40 - 60%

Class 4
60 - 100%




J6-C1
J6-C1
J7-C1
J7-C1
J8-C1
J8-C1
J9-C1
J9-C1
J10-C1
J10-C1
200.0 ft
250.0 ft
300.0 ft
350.0 ft
400.0 ft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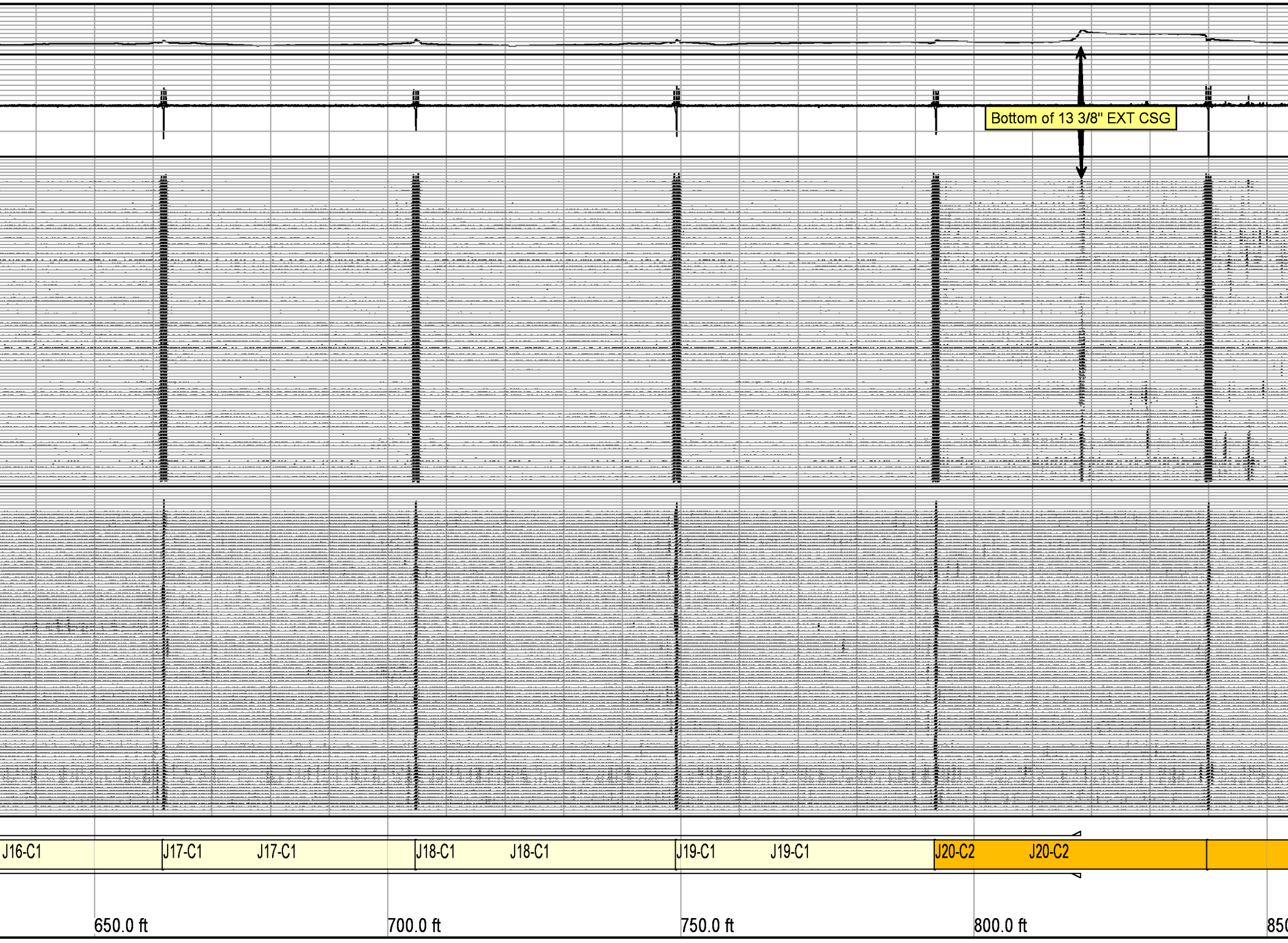
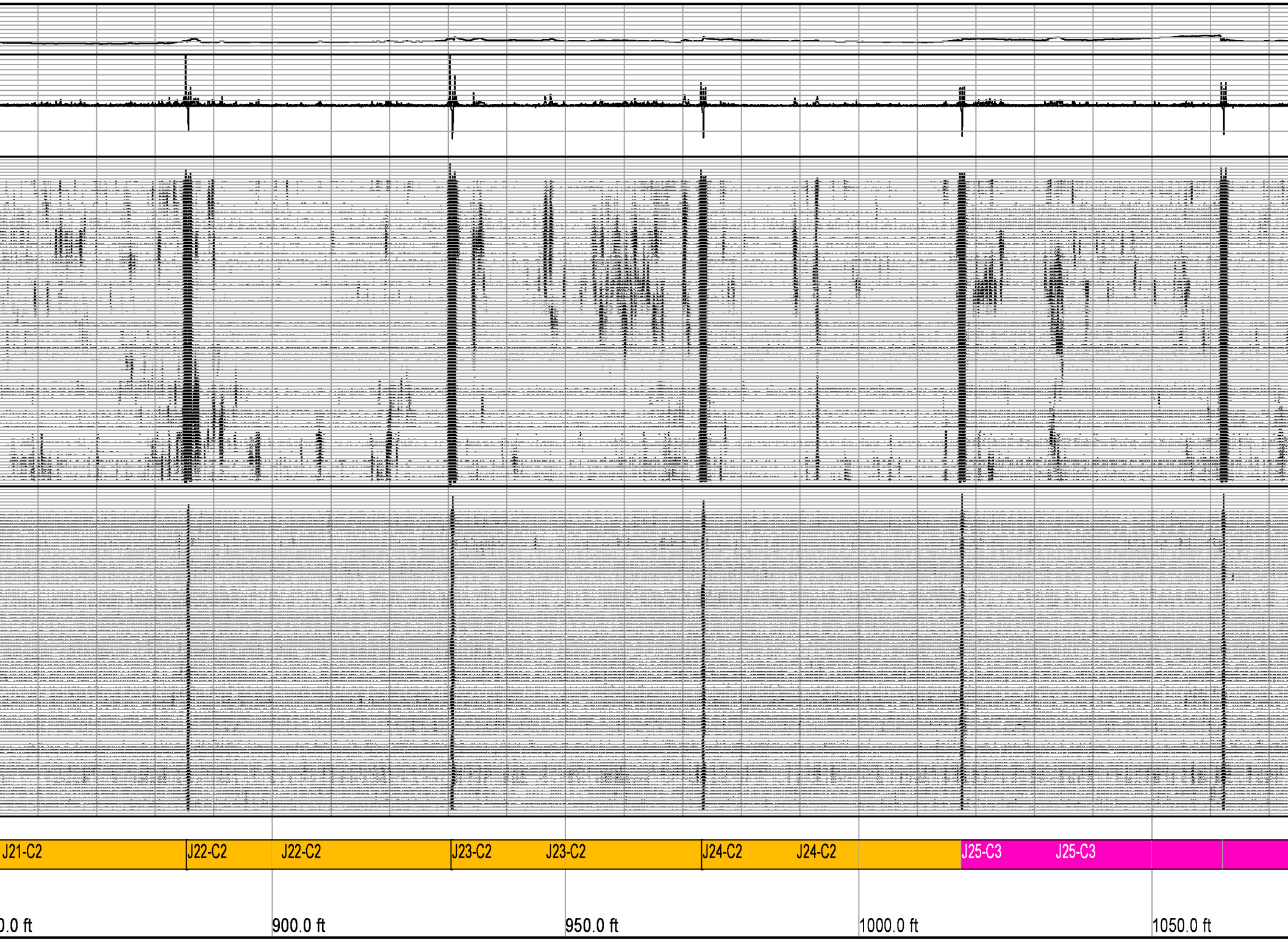
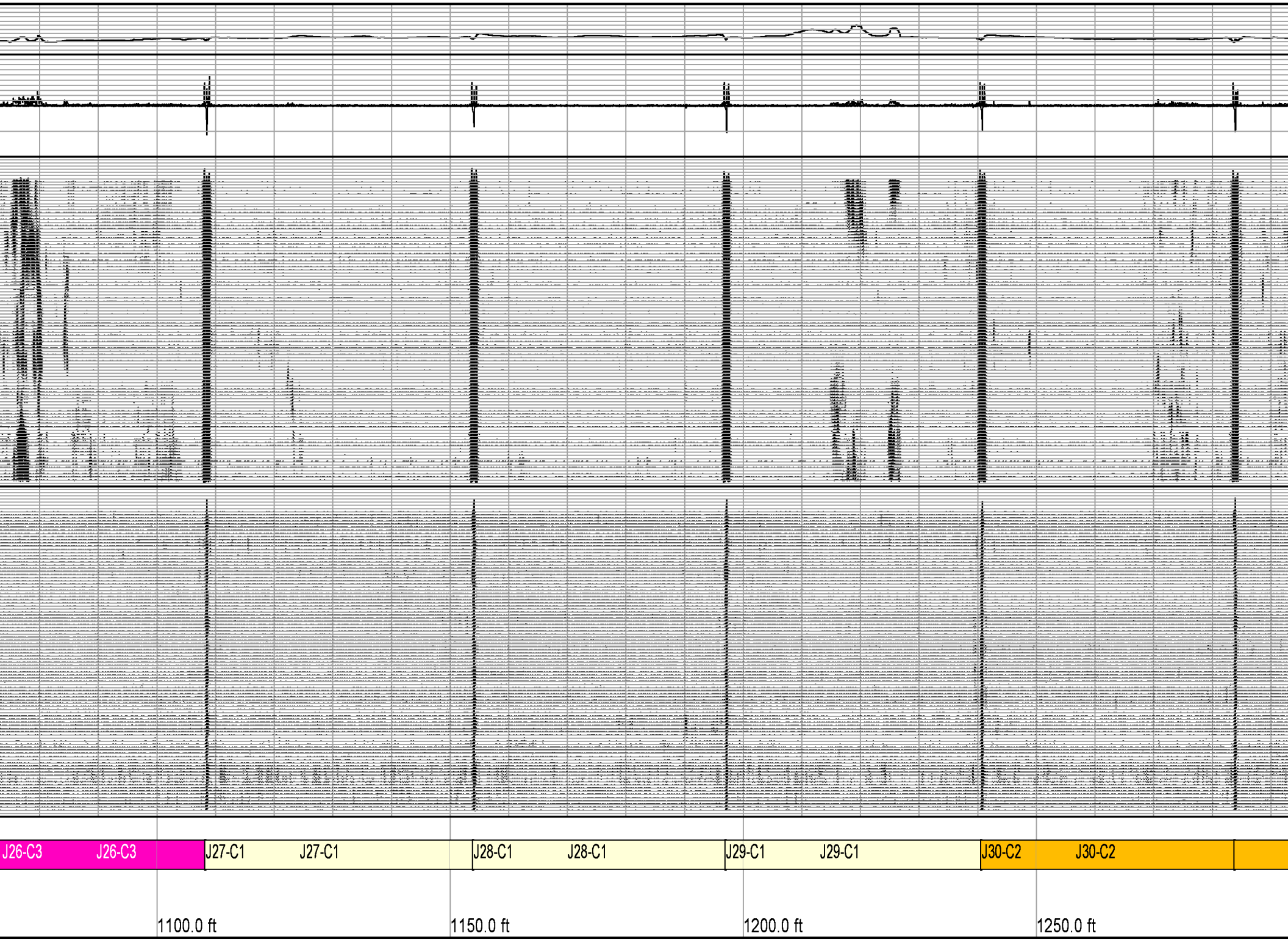
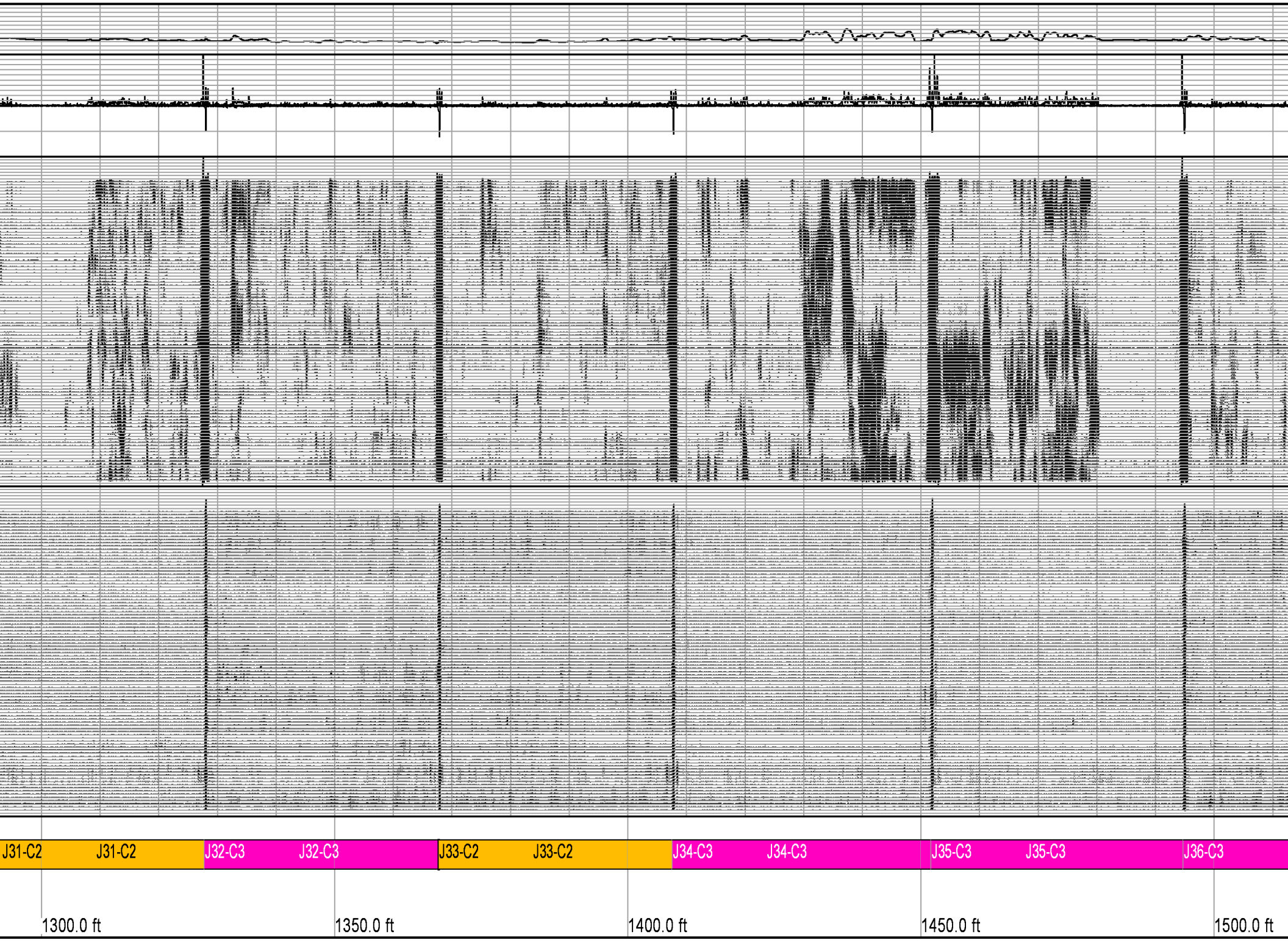
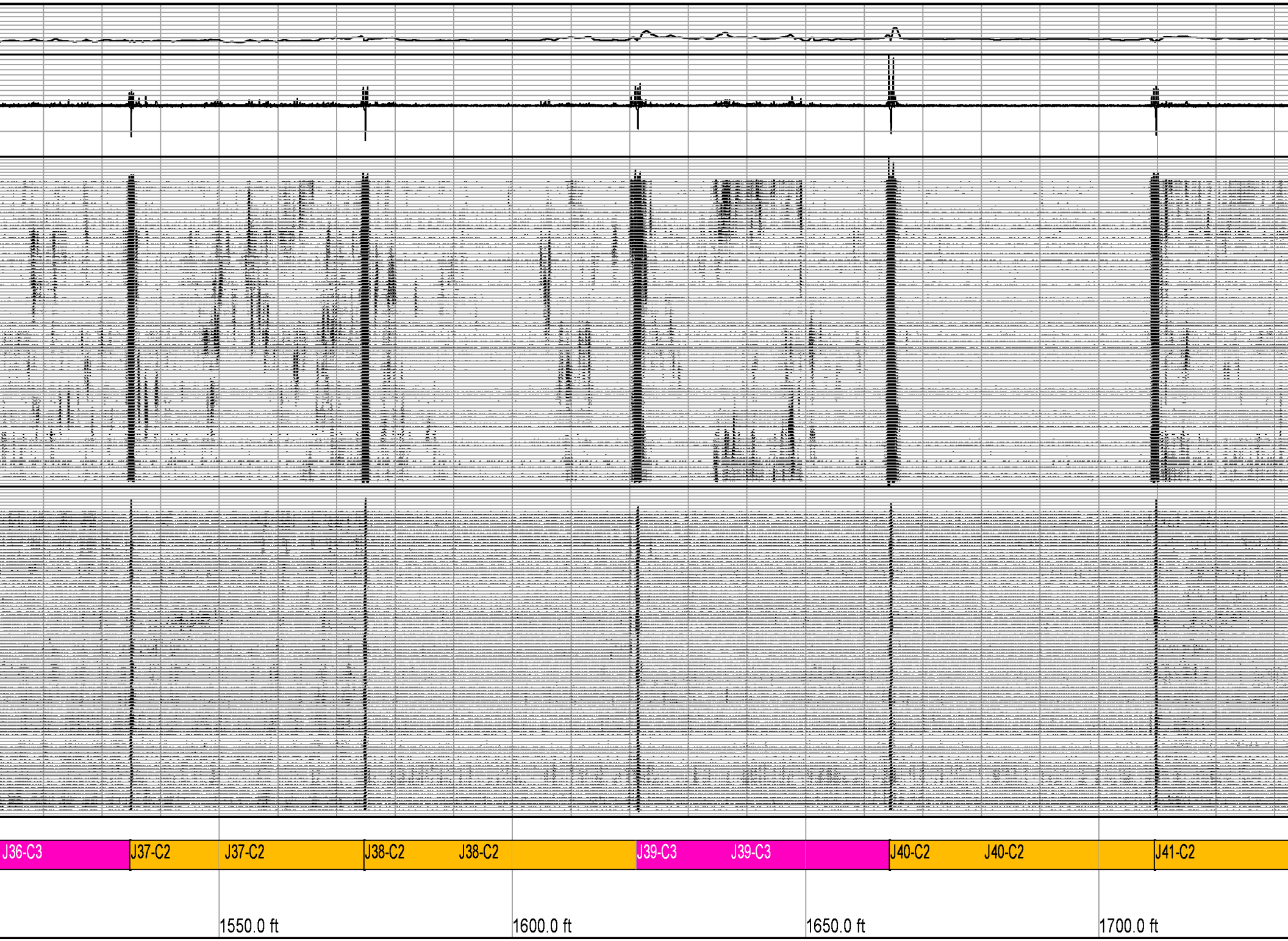
J12-C1
J12-C1
J13-C1
J13-C1
J14-C1
J14-C1
J15-C1
J15-C1
J16-C1
450.0 ft
500.0 ft
550.0 ft
600.0 ft

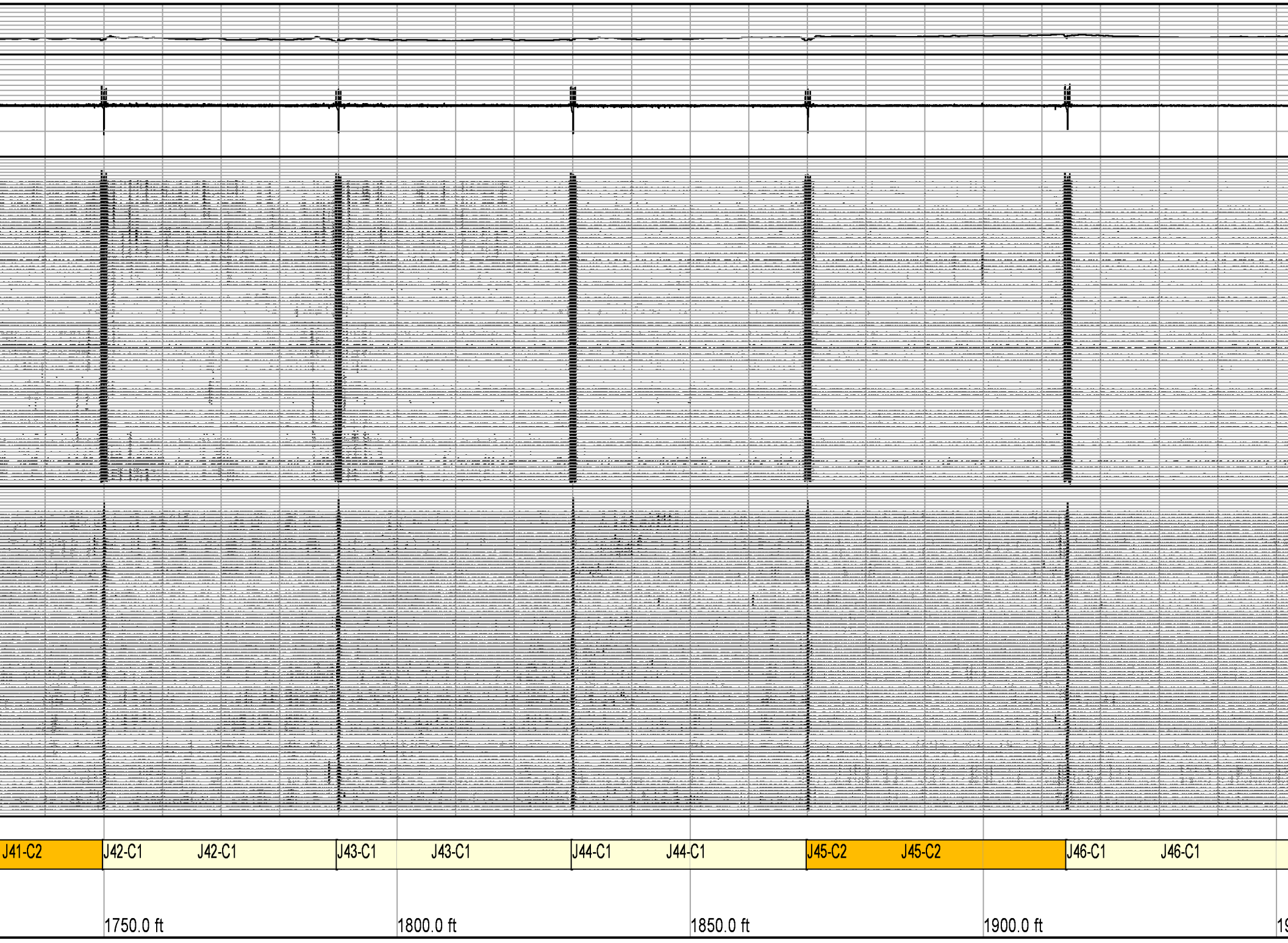

Bottom of 13 3/8" EXT CSG
J16-C1
J17-C1
J17-C1
J18-C1
J18-C1
J19-C1
J19-C1
J20-C2
J20-C2
650.0 ft
700.0 ft
750.0 ft
800.0 ft

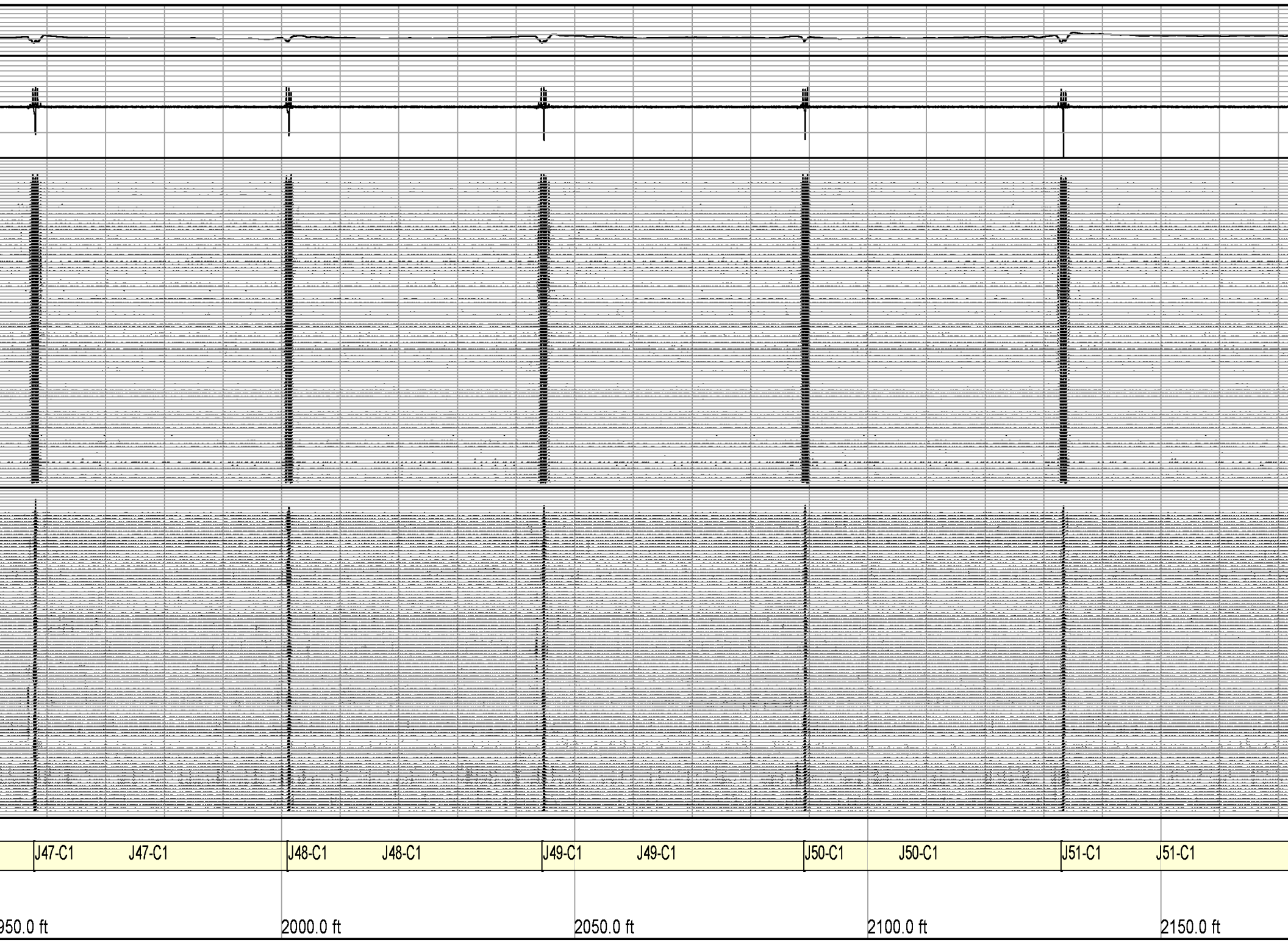

J21-C2
J22-C2
J22-C2
J23-C2
J23-C2
J24-C2
J24-C2
J25-C3
J25-C3
0.0 ft
900.0 ft
950.0 ft
1000.0 ft
1050.0 ft

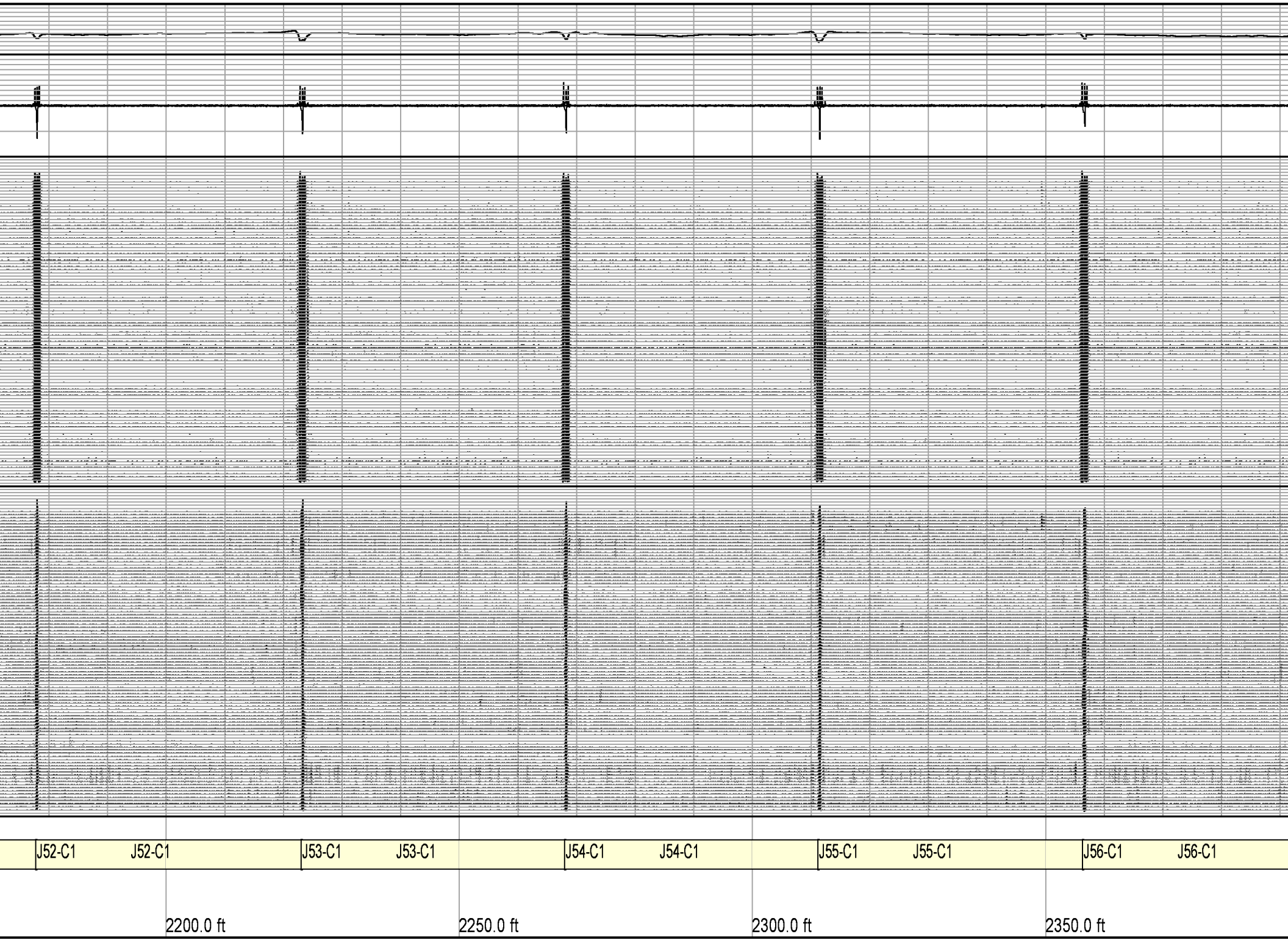

J26-C3
J26-C3
J27-C1
J27-C1
J28-C1
J28-C1
J29-C1
J29-C1
J30-C2
J30-C2
1100.0 ft
1150.0 ft
1200.0 ft
1250.0 ft

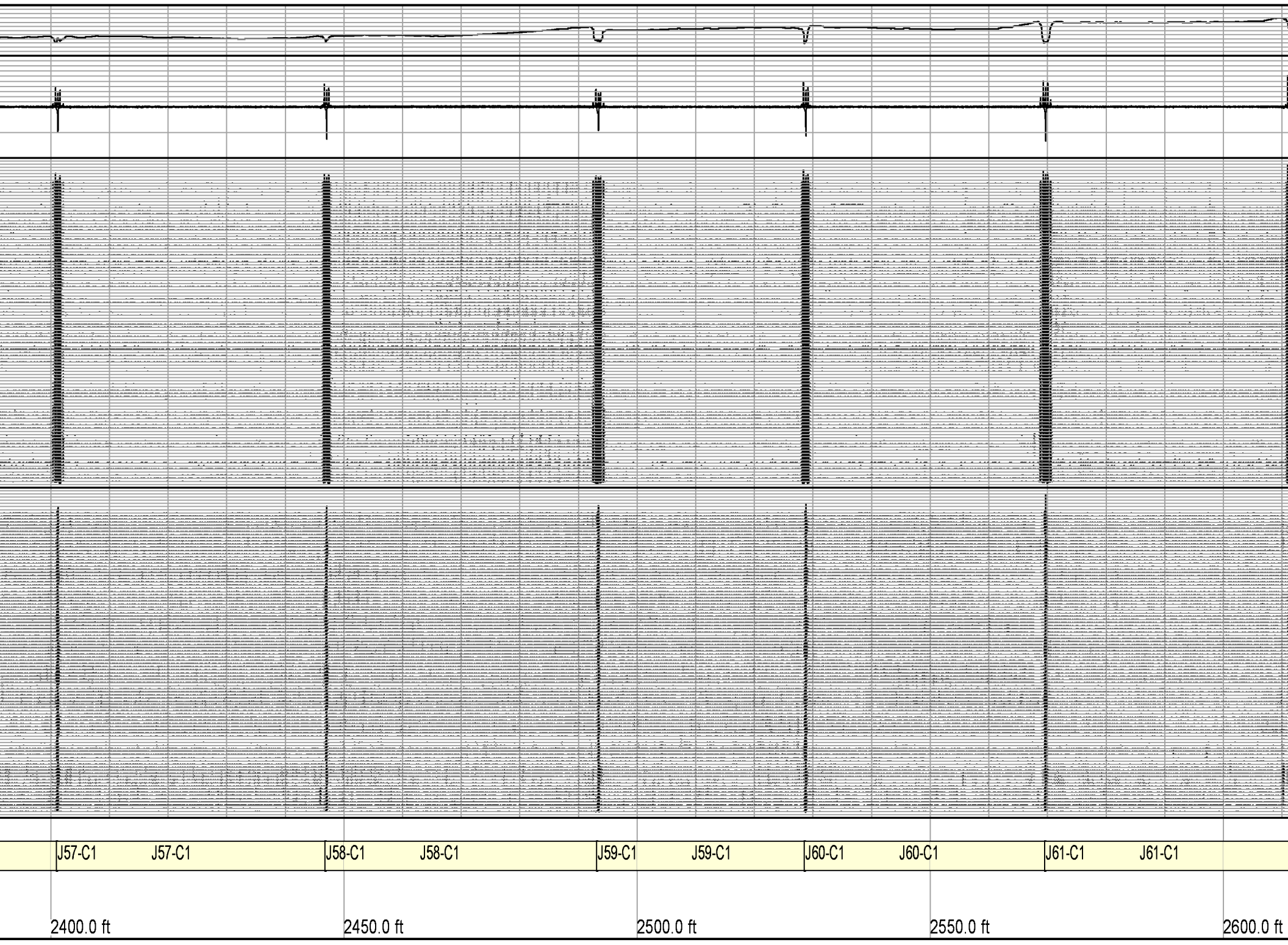

J31-C2
J31-C2
J32-C3
J32-C3
J33-C2
J33-C2
J34-C3
J34-C3
J35-C3
J35-C3
J36-C3
1300.0 ft
1350.0 ft
1400.0 ft
1450.0 ft
1500.0 ft

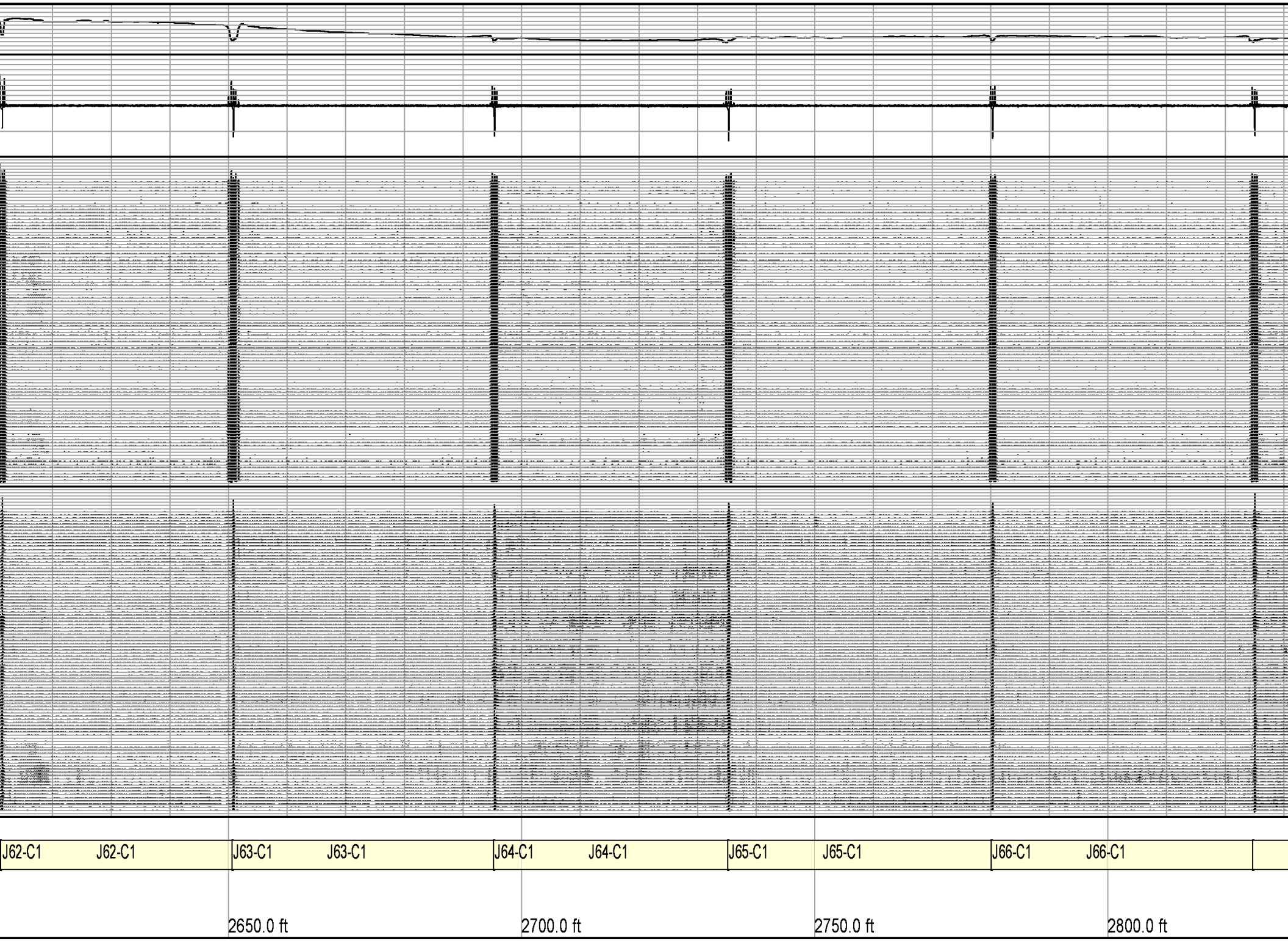

J36-C3
J37-C2
J37-C2
J38-C2
J38-C2
J39-C3
J39-C3
J40-C2
J40-C2
J41-C2
1550.0 ft
1600.0 ft
1650.0 ft
1700.0 ft

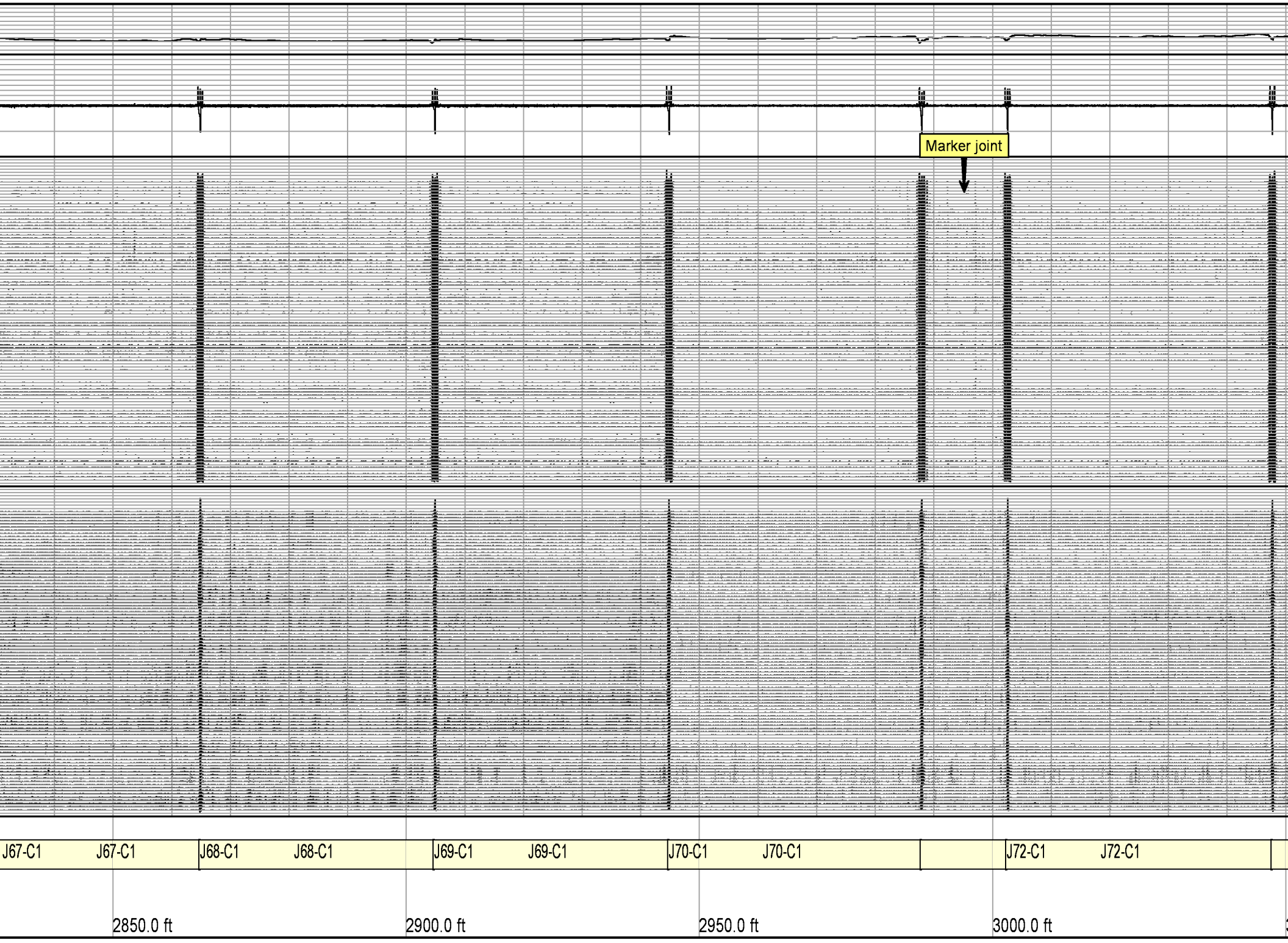

J41-C2
J42-C1
J42-C1
J43-C1
J43-C1
J44-C1
J44-C1
J45-C2
J45-C2
J46-C1
J46-C1
1750.0 ft
1800.0 ft
1850.0 ft
1900.0 ft

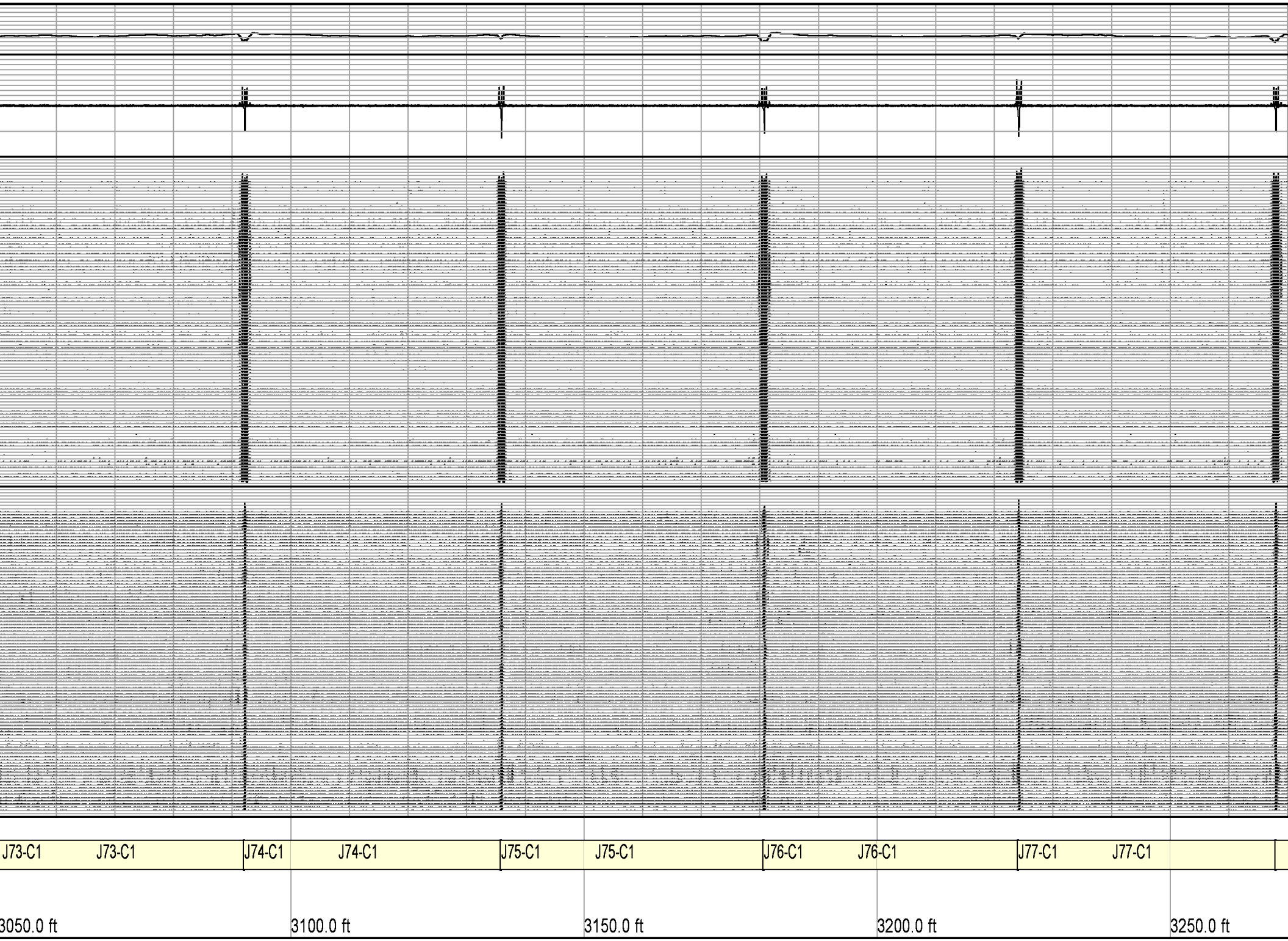

J47-C1
J47-C1
J48-C1
J48-C1
J49-C1
J49-C1
J50-C1
J50-C1
J51-C1
J51-C1
950.0 ft
2000.0 ft
2050.0 ft
2100.0 ft
2150.0 ft

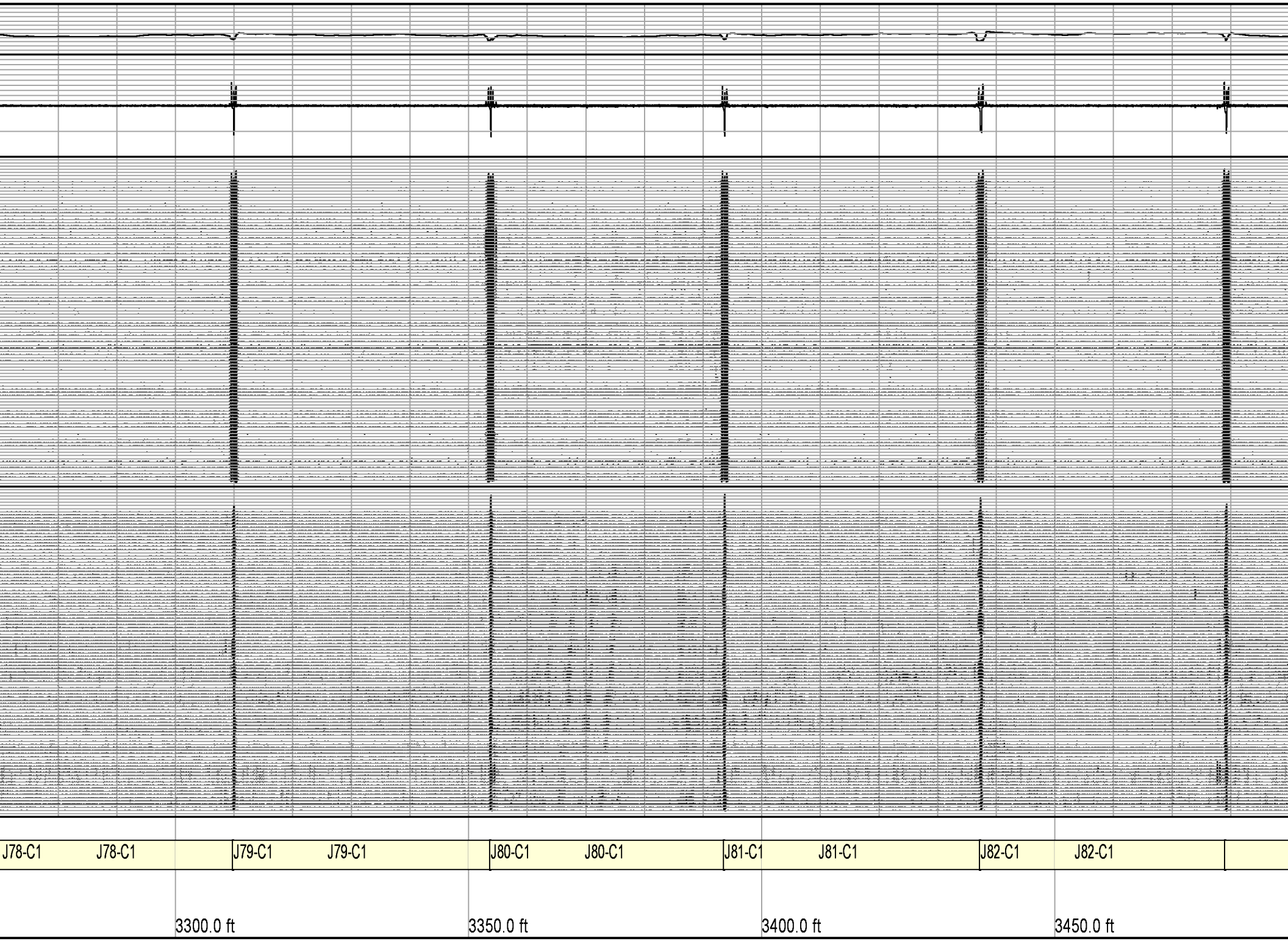

J52-C1
J52-C1
J53-C1
J53-C1
J54-C1
J54-C1
J55-C1
J55-C1
J56-C1
J56-C1
2200.0 ft
2250.0 ft
2300.0 ft
2350.0 ft

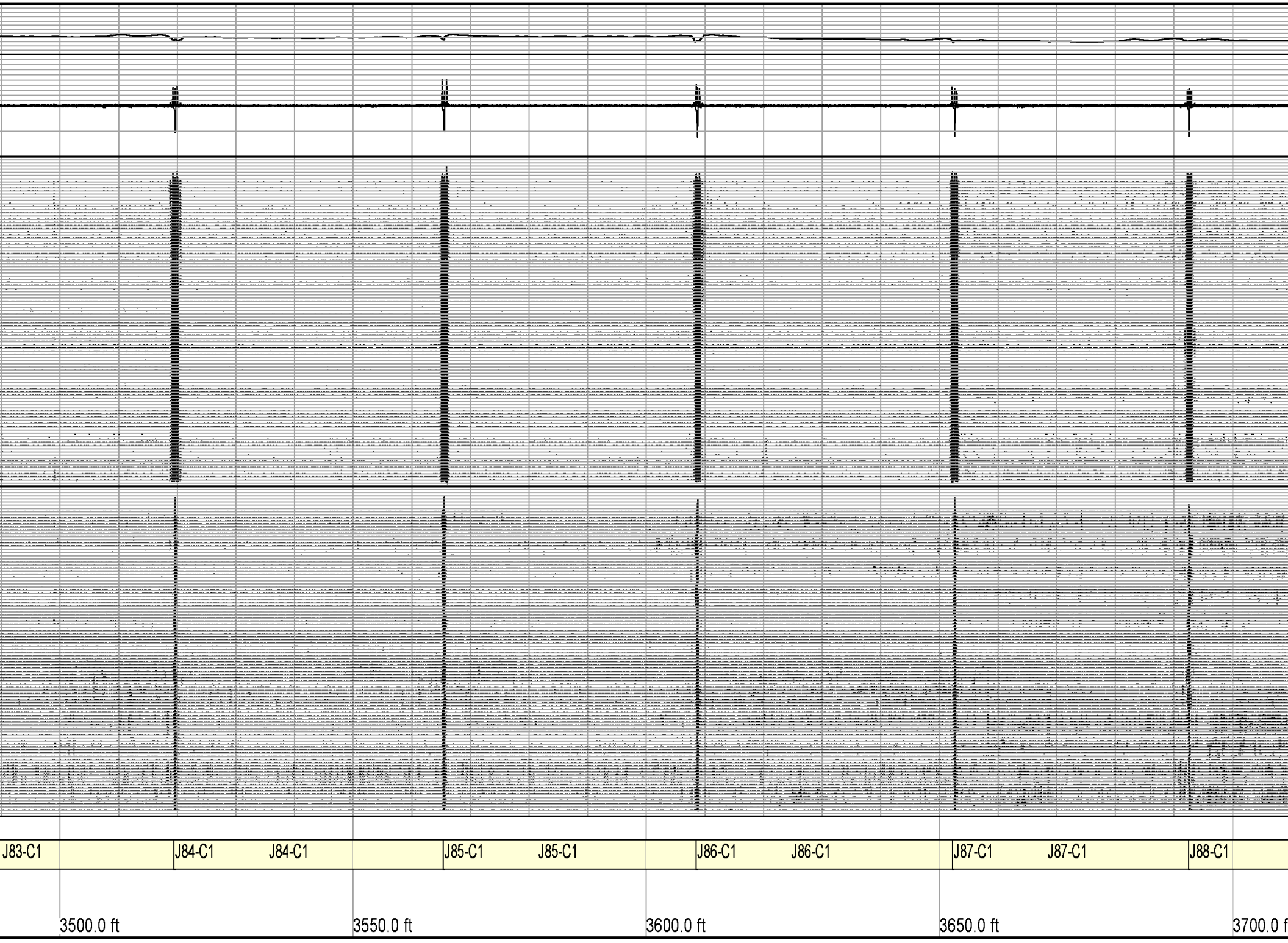

J57-C1
J57-C1
J58-C1
J58-C1
J59-C1
J59-C1
J60-C1
J60-C1
J61-C1
J61-C1
2400.0 ft
2450.0 ft
2500.0 ft
2550.0 ft
2600.0 ft

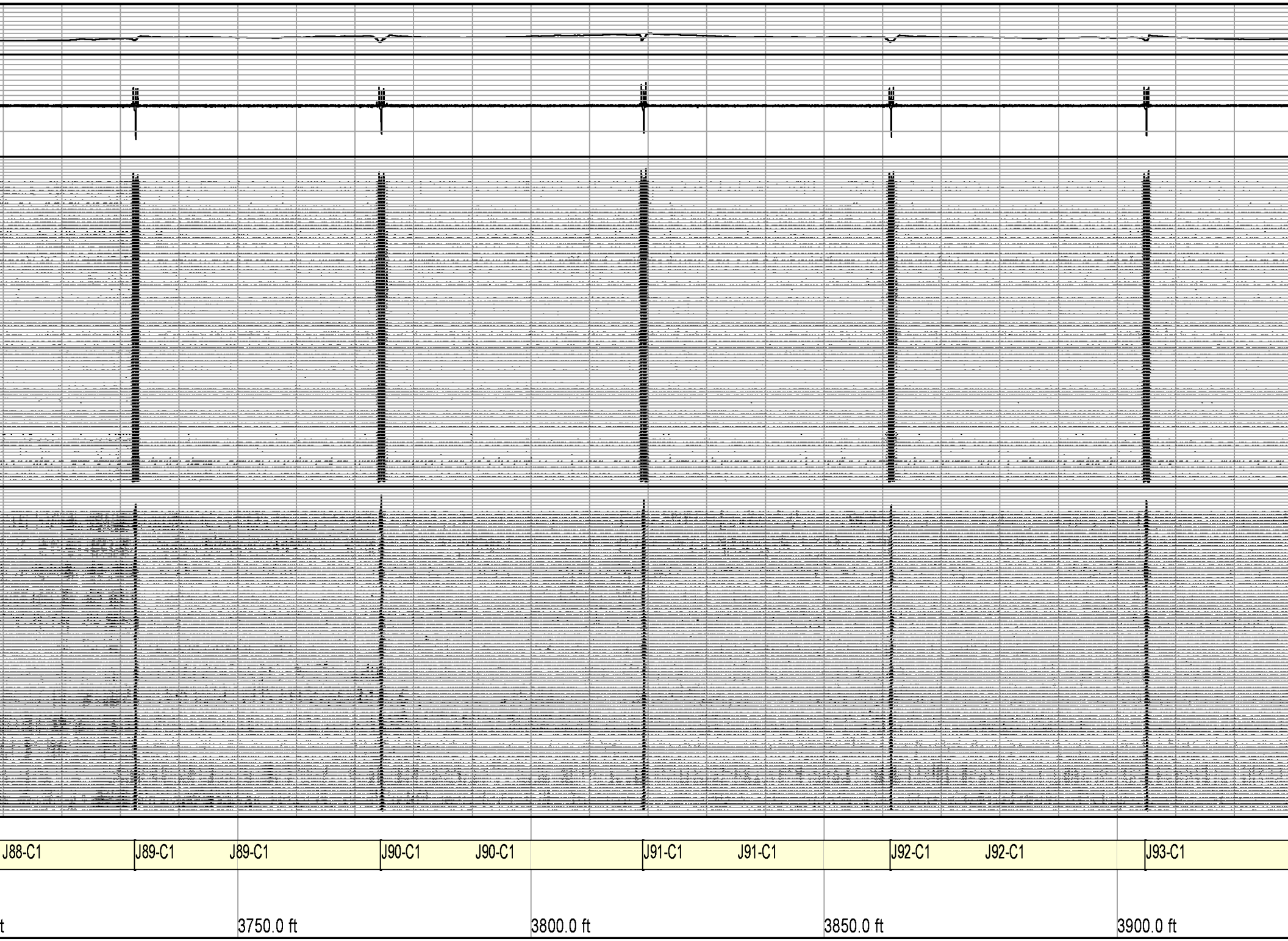

J62-C1
J62-C1
J63-C1
J63-C1
J64-C1
J64-C1
J65-C1
J65-C1
J66-C1
J66-C1
2650.0 ft
2700.0 ft
2750.0 ft
2800.0 ft

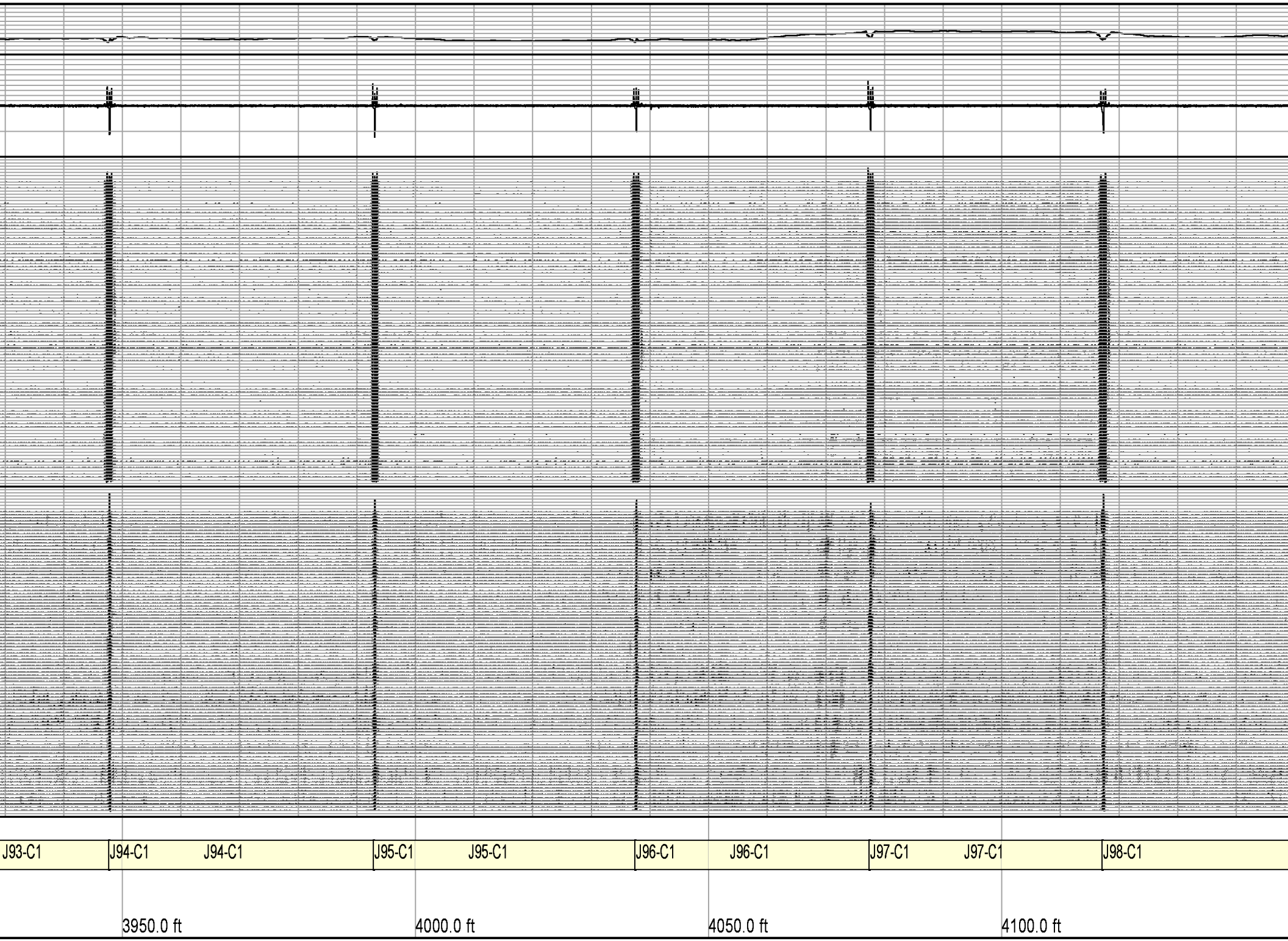

Marker joint
J67-C1
J67-C1
J68-C1
J68-C1
J69-C1
J69-C1
J70-C1
J70-C1
J72-C1
J72-C1
2850.0 ft
2900.0 ft
2950.0 ft
3000.0 ft

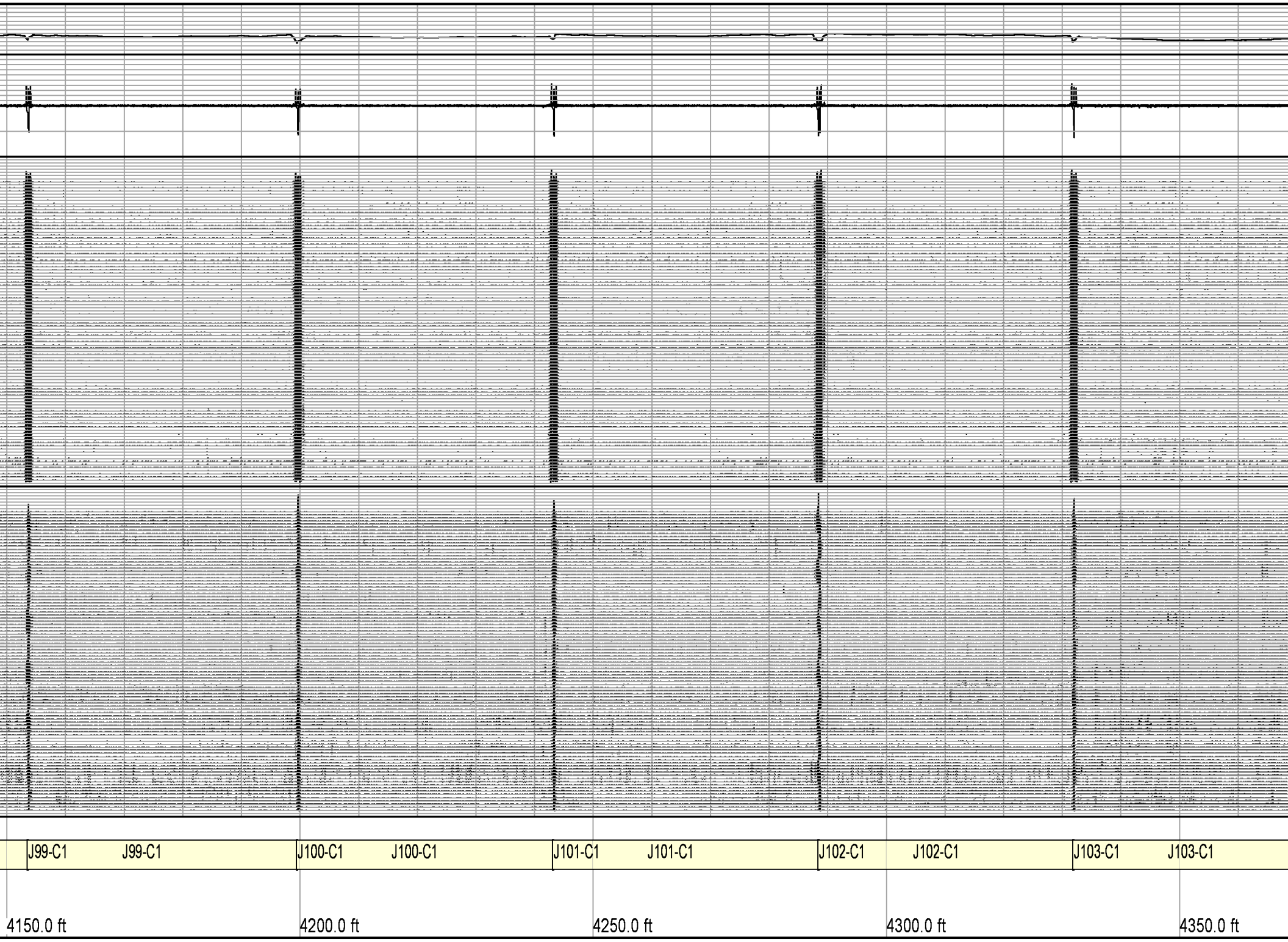

J73-C1
J73-C1
J74-C1
J74-C1
J75-C1
J75-C1
J76-C1
J76-C1
J77-C1
J77-C1
3050.0 ft
3100.0 ft
3150.0 ft
3200.0 ft
3250.0 ft

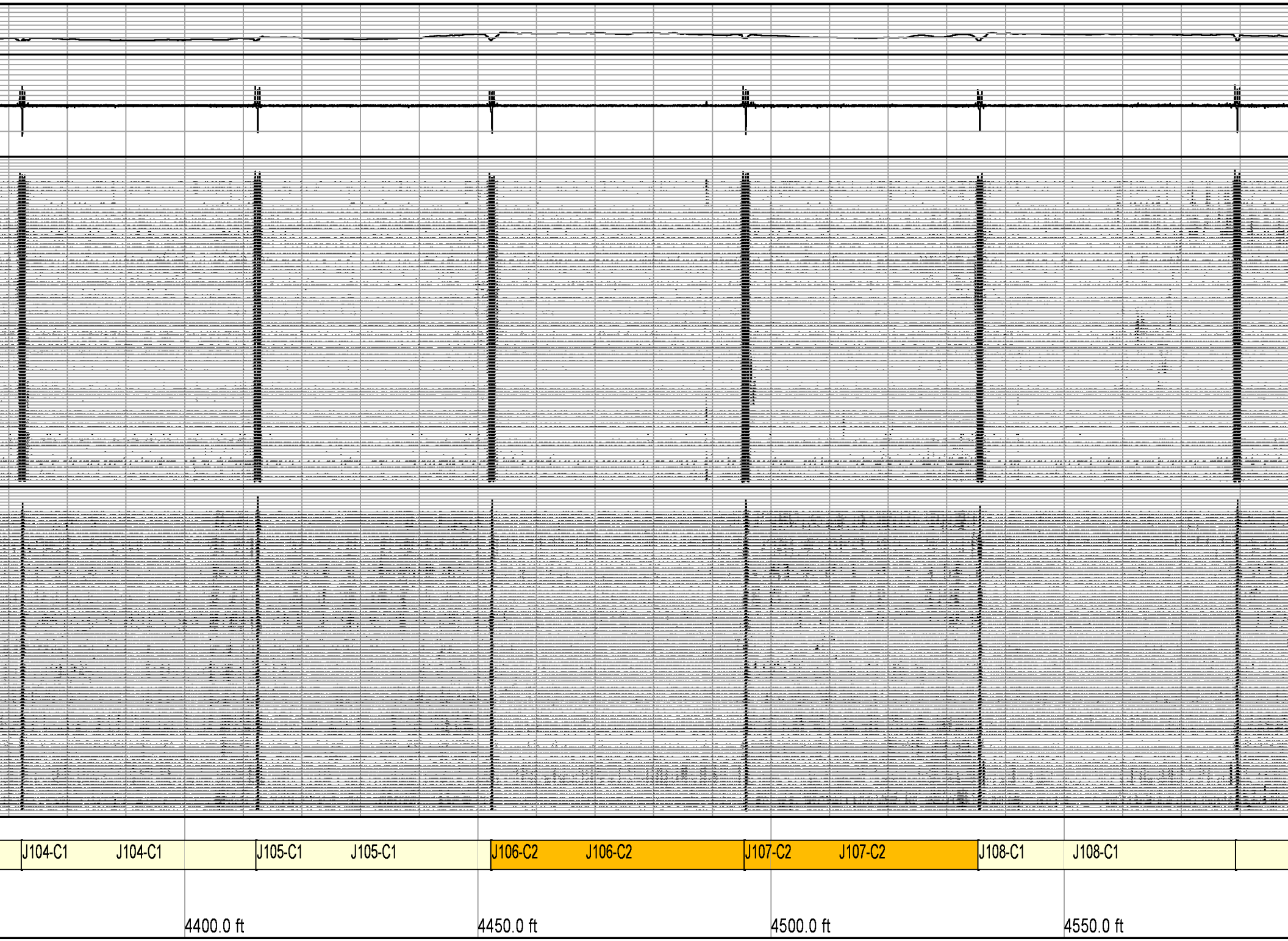

J78-C1
J78-C1
J79-C1
J79-C1
J80-C1
J80-C1
J81-C1
J81-C1
J82-C1
J82-C1
3300.0 ft
3350.0 ft
3400.0 ft
3450.0 ft

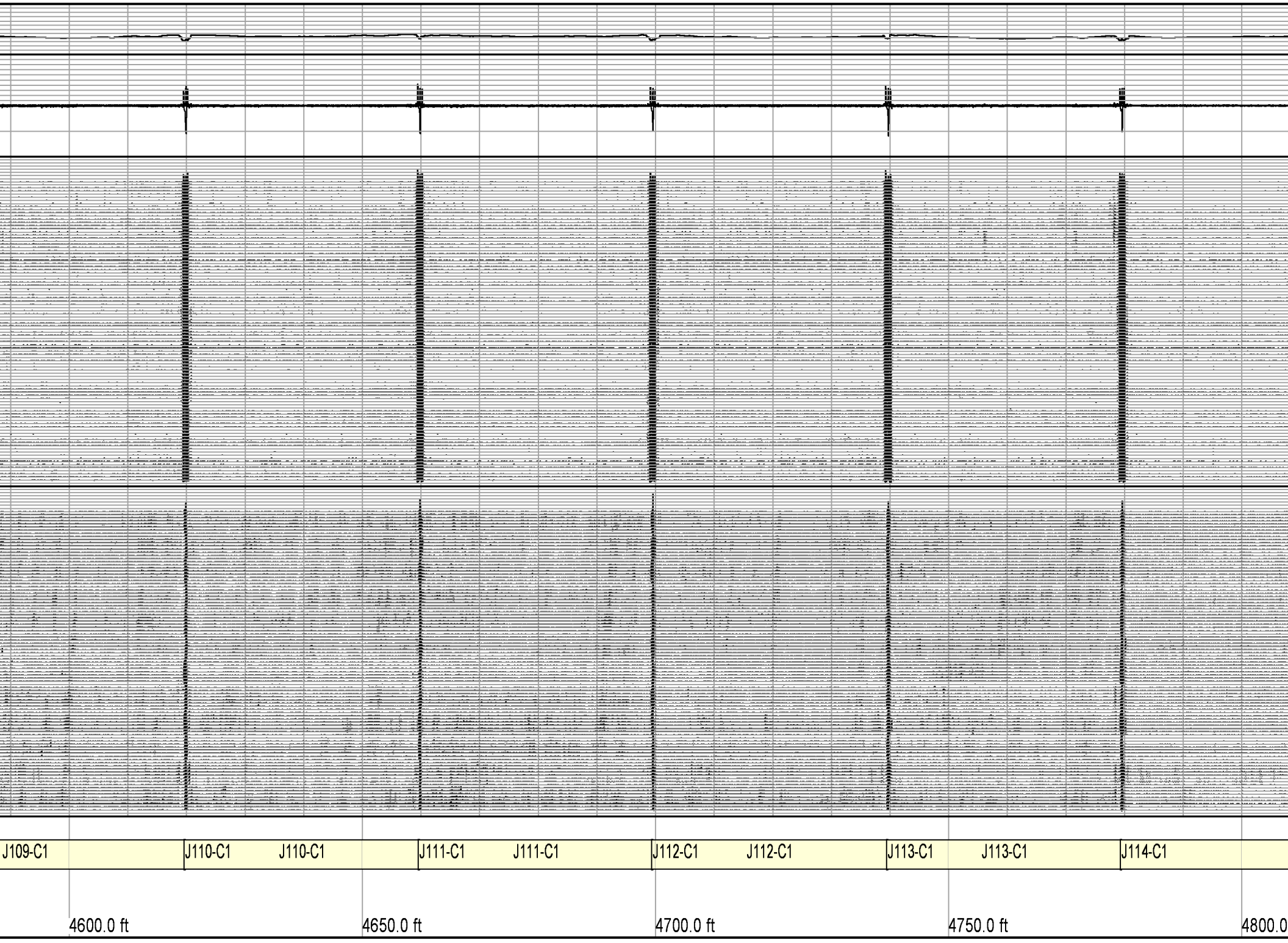

J83-C1
J84-C1
J84-C1
J85-C1
J85-C1
J86-C1
J86-C1
J87-C1
J87-C1
J88-C1
3500.0 ft
3550.0 ft
3600.0 ft
3650.0 ft
3700.0 f

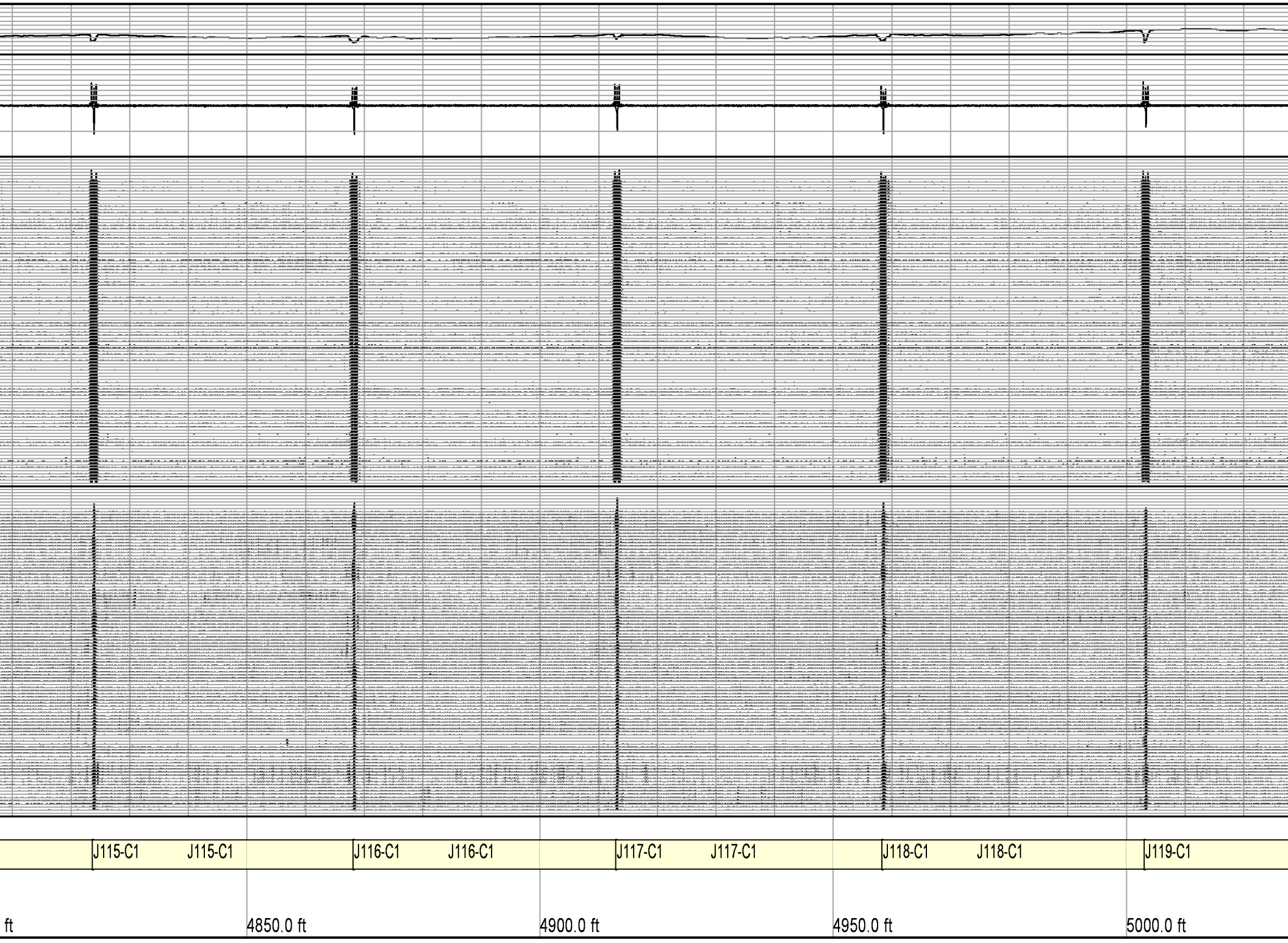

J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
J91-C1
J91-C1
J92-C1
J92-C1
J93-C1
t
3750.0 ft
3800.0 ft
3850.0 ft
3900.0 ft

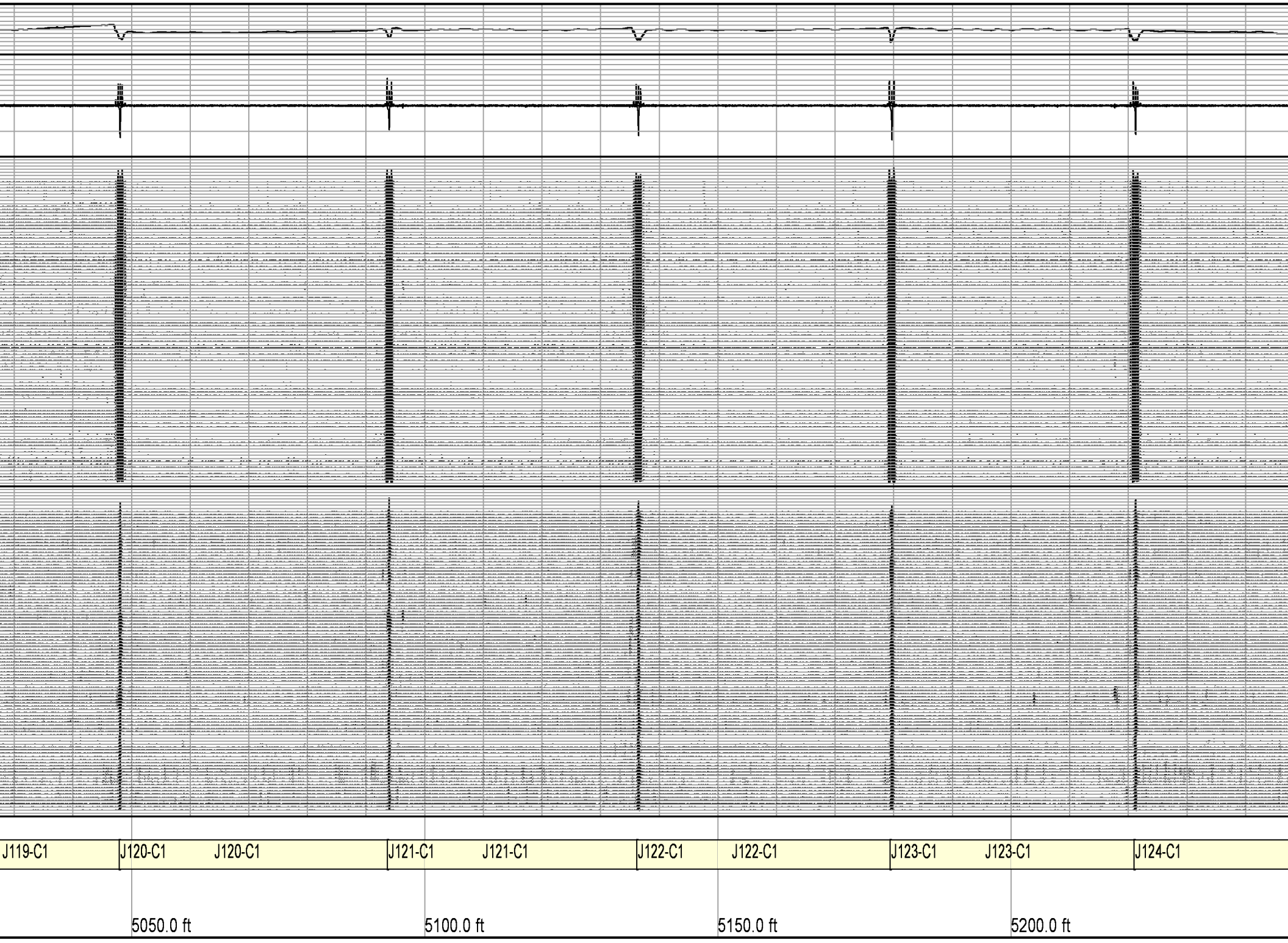

J93-C1
J94-C1
J94-C1
J95-C1
J95-C1
J96-C1
J96-C1
J97-C1
J97-C1
J98-C1
3950.0 ft
4000.0 ft
4050.0 ft
4100.0 ft

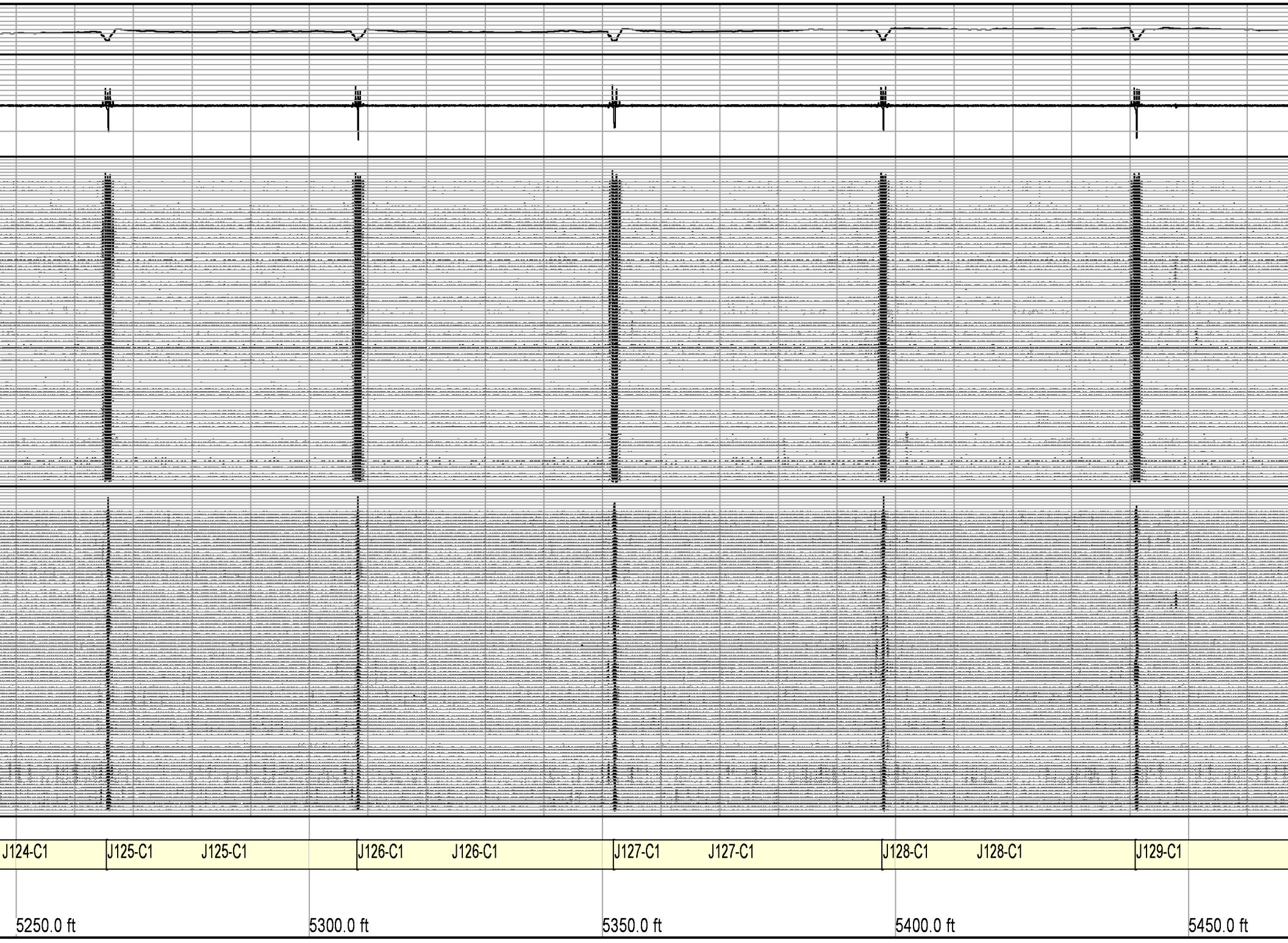

J99-C1
J99-C1
J100-C1
J100-C1
J101-C1
J101-C1
J102-C1
J102-C1
J103-C1
J103-C1
4150.0 ft
4200.0 ft
4250.0 ft
4300.0 ft
4350.0 ft

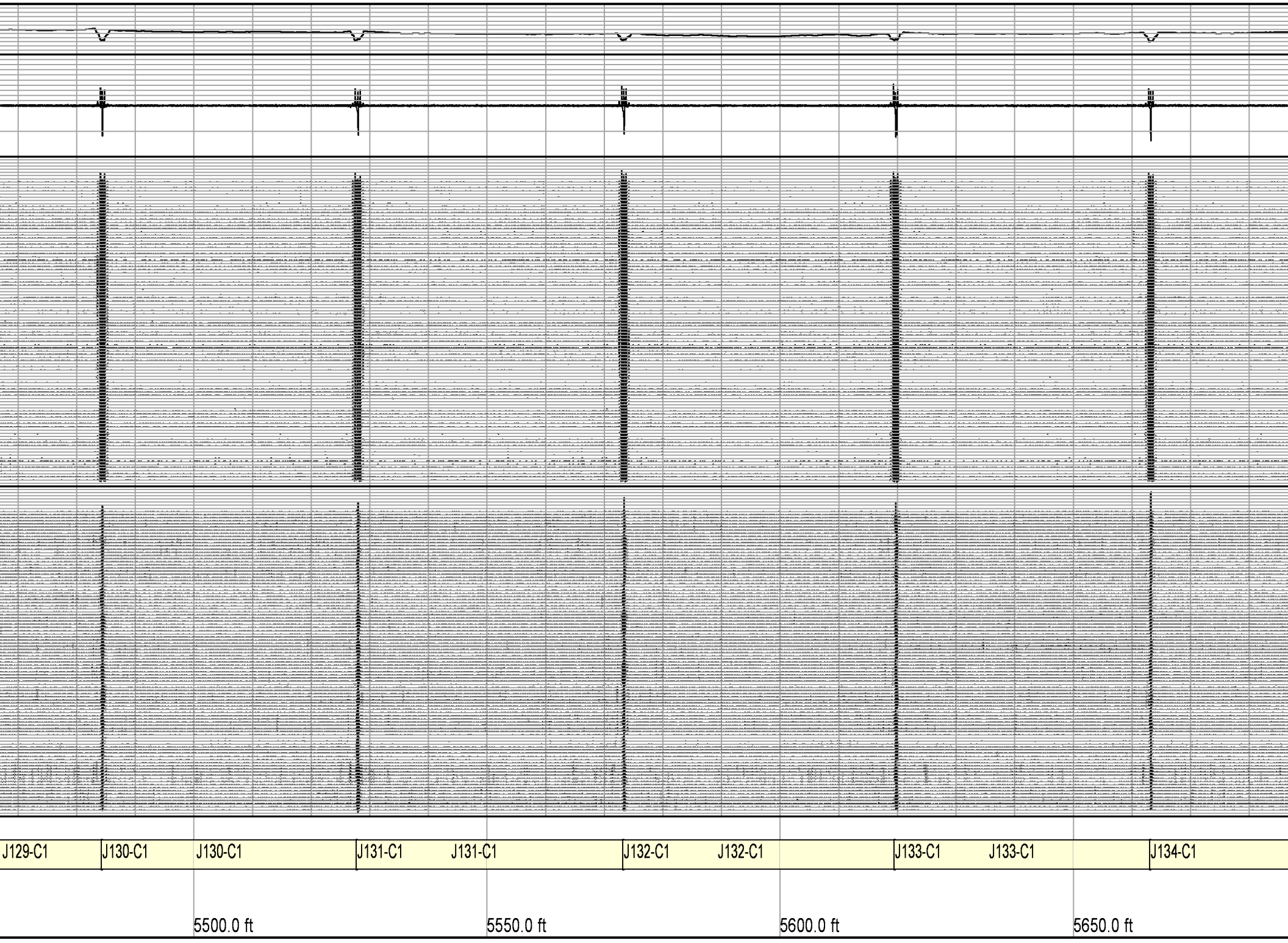

J104-C1
J104-C1
J105-C1
J105-C1
J106-C2
J106-C2
J107-C2
J107-C2
J108-C1
J108-C1
4400.0 ft
4450.0 ft
4500.0 ft
4550.0 ft

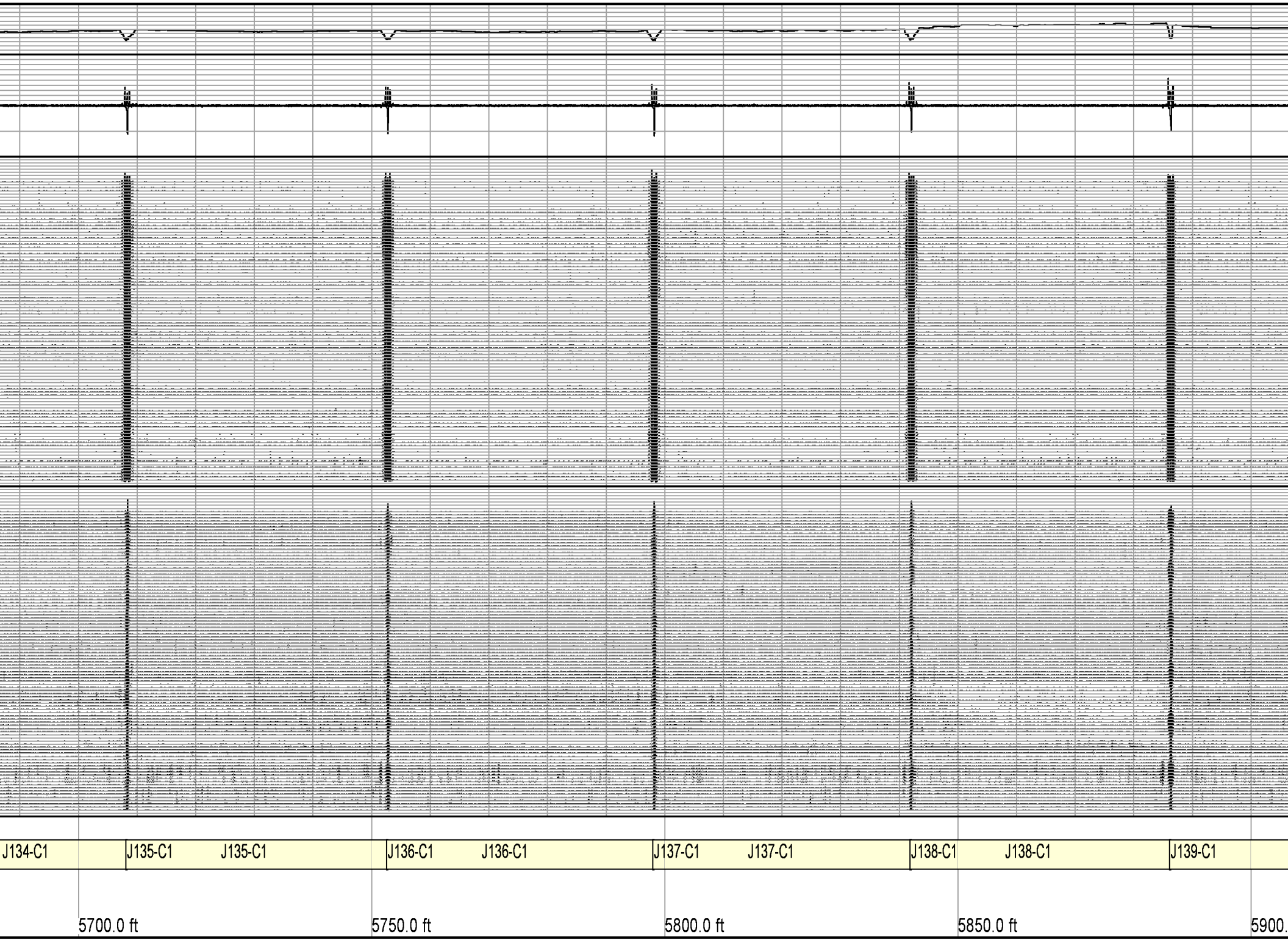

J109-C1
J110-C1
J110-C1
J111-C1
J111-C1
J112-C1
J112-C1
J113-C1
J113-C1
J114-C1
4600.0 ft
4650.0 ft
4700.0 ft
4750.0 ft
4800.0

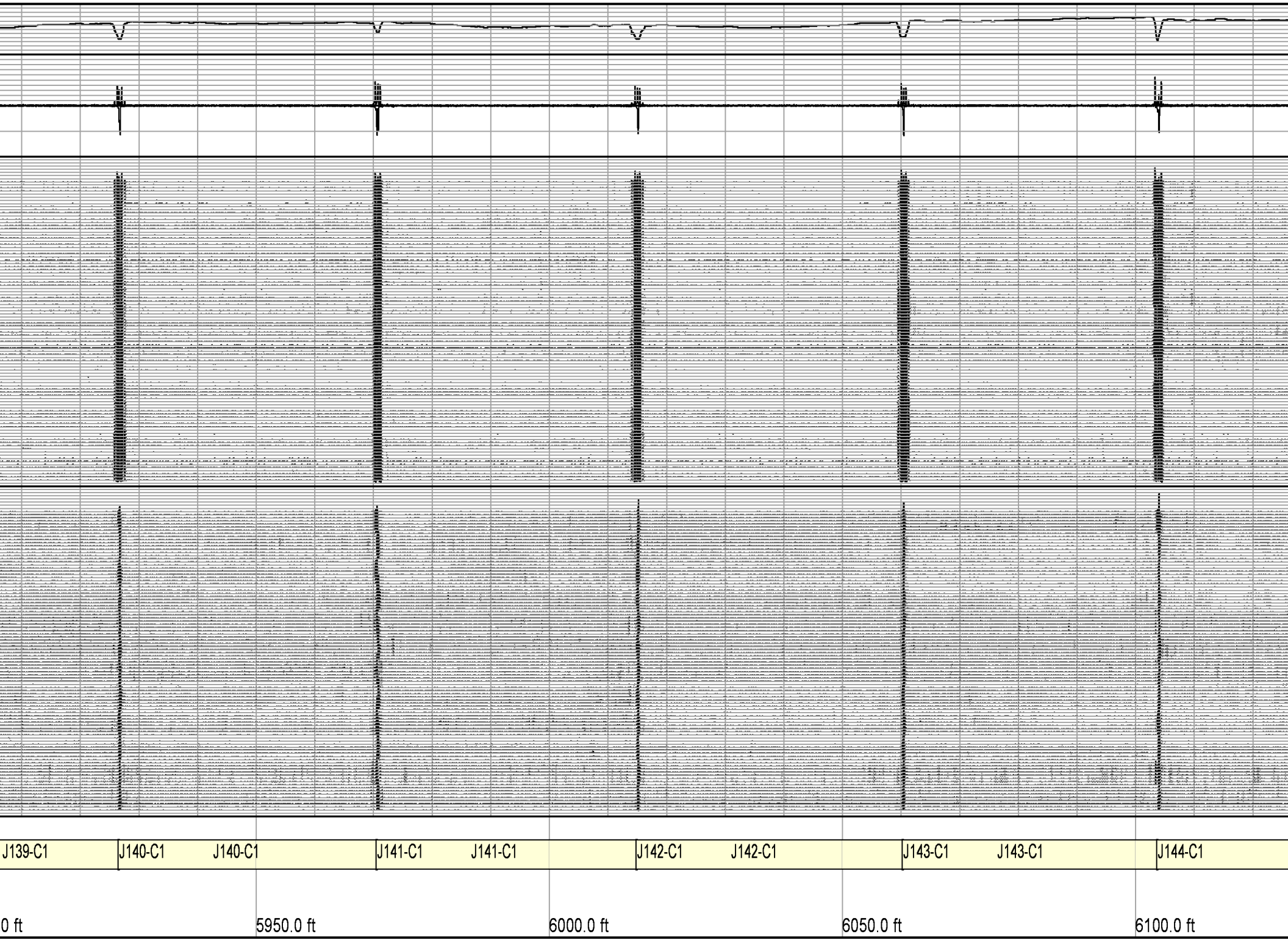

J115-C1
J115-C1
J116-C1
J116-C1
J117-C1
J117-C1
J118-C1
J118-C1
J119-C1
ft
4850.0 ft
4900.0 ft
4950.0 ft
5000.0 ft

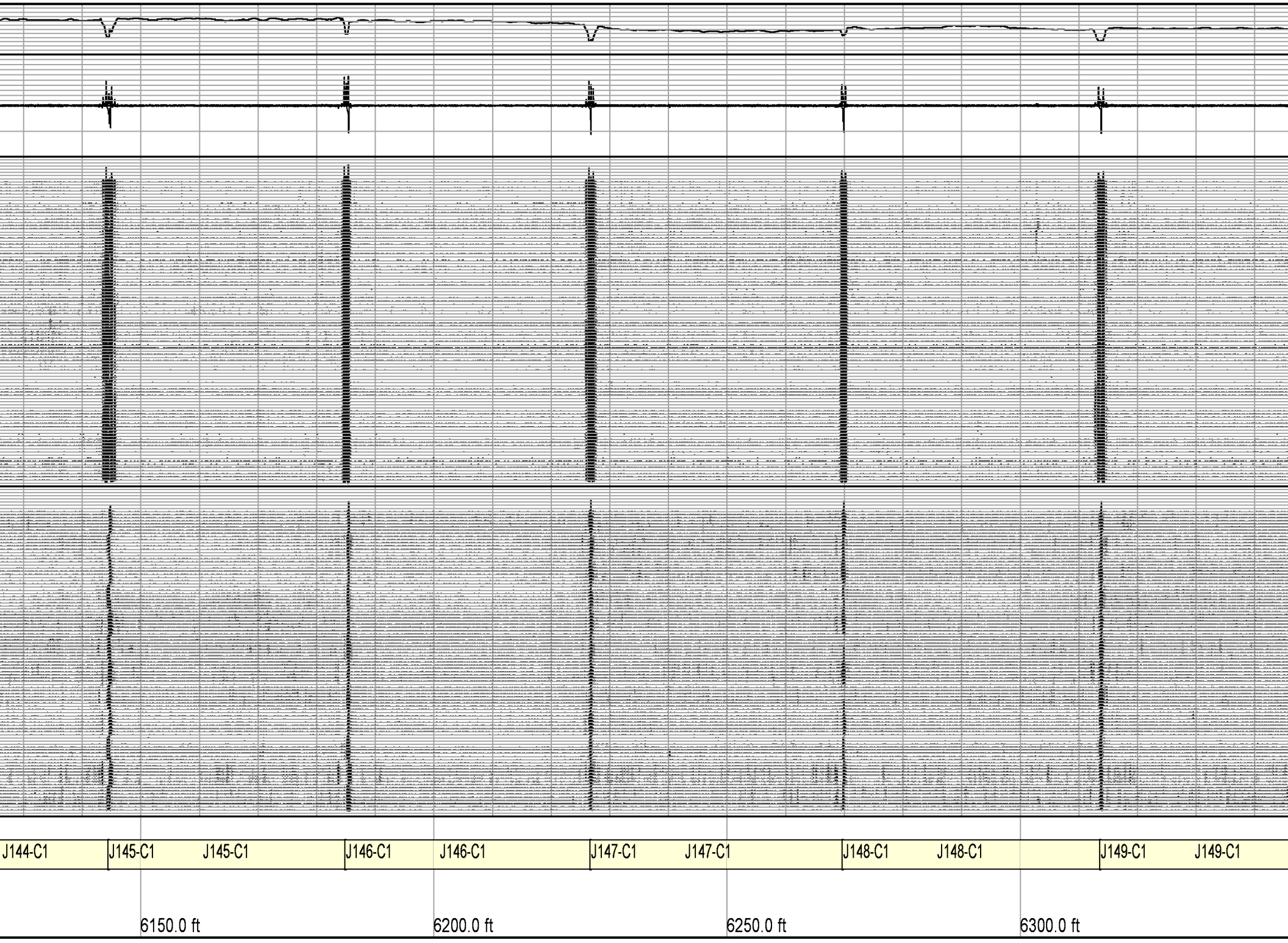

J119-C1
J120-C1
J120-C1
J121-C1
J121-C1
J122-C1
J122-C1
J123-C1
J123-C1
J124-C1
5050.0 ft
5100.0 ft
5150.0 ft
5200.0 ft

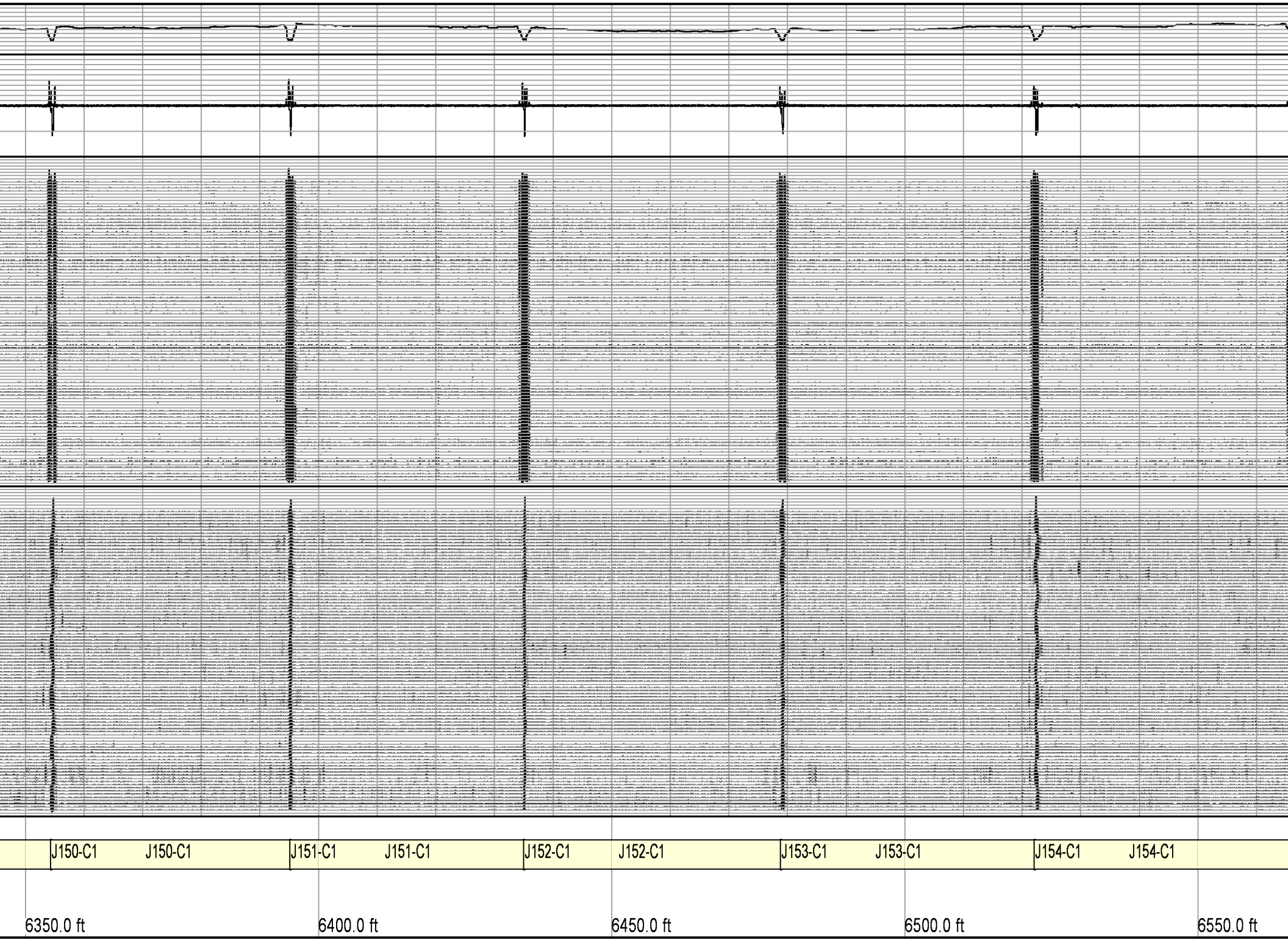

J124-C1
J125-C1
J125-C1
J126-C1
J126-C1
J127-C1
J127-C1
J128-C1
J128-C1
J129-C1
5250.0 ft
5300.0 ft
5350.0 ft
5400.0 ft
5450.0 ft

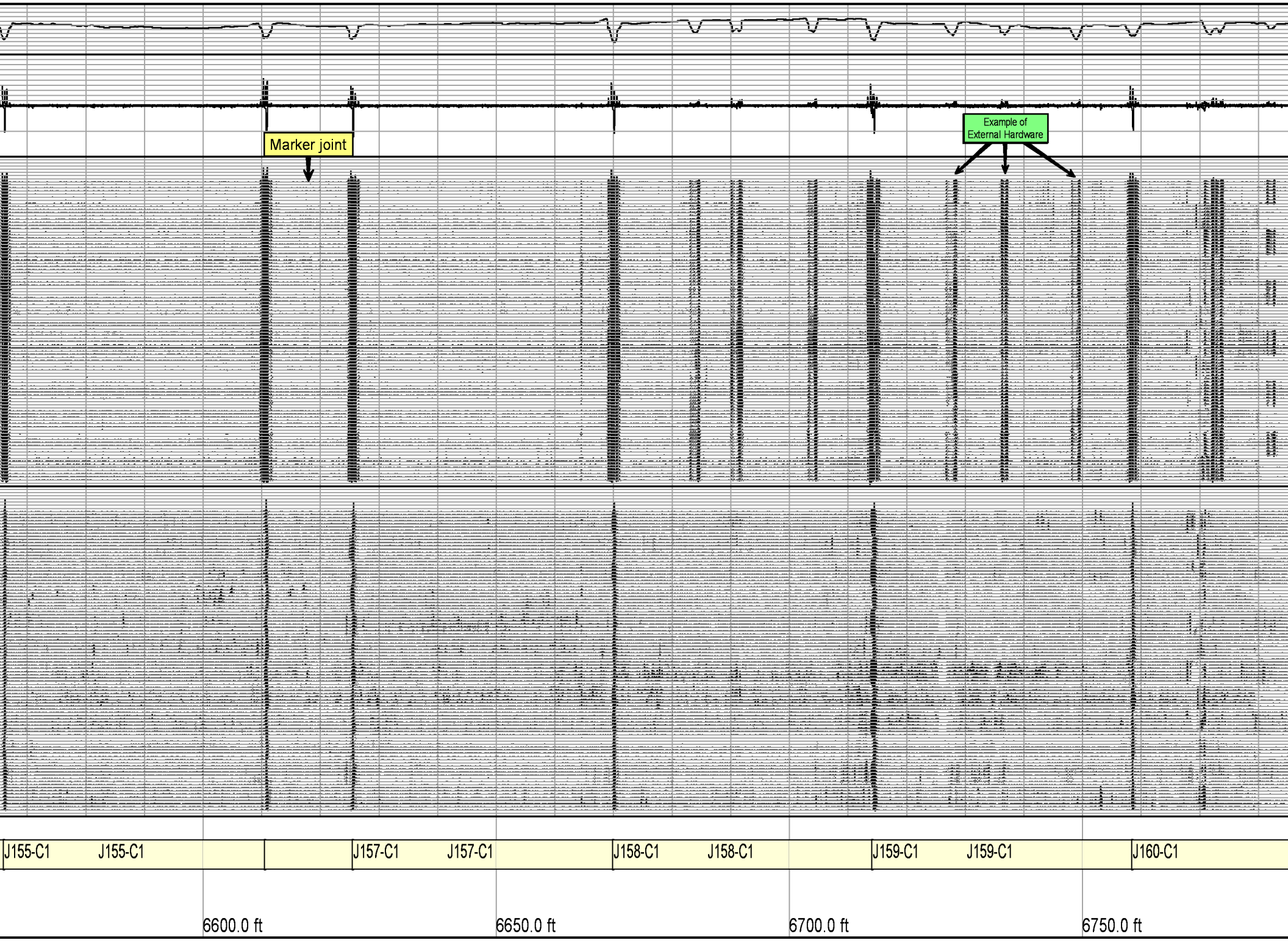

J129-C1
J130-C1
J130-C1
J131-C1
J131-C1
J132-C1
J132-C1
J133-C1
J133-C1
J134-C1
5500.0 ft
5550.0 ft
5600.0 ft
5650.0 ft

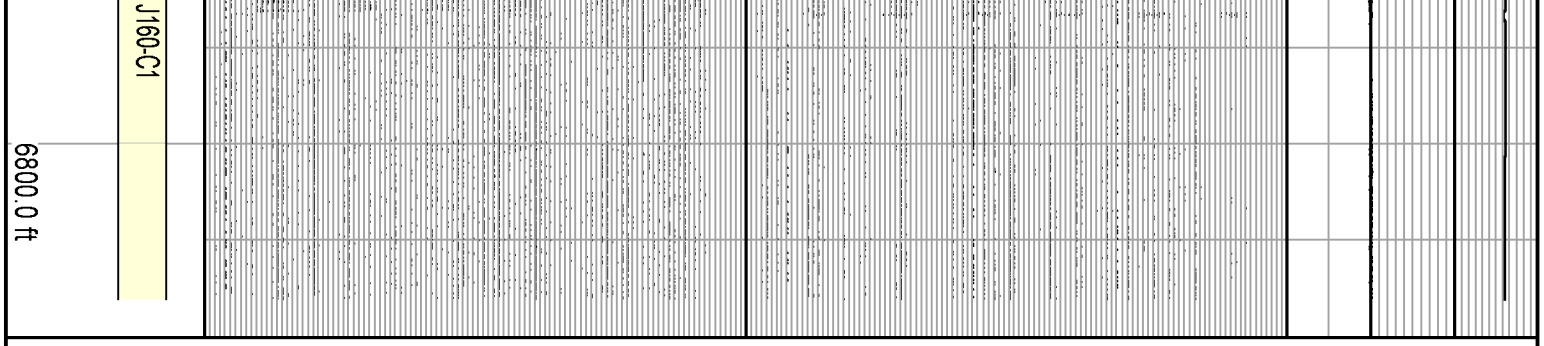

J134-C1
J135-C1
J135-C1
J136-C1
J136-C1
J137-C1
J137-C1
J138-C1
J138-C1
J139-C1
5700.0 ft
5750.0 ft
5800.0 ft
5850.0 ft
5900.


J139-C1
J140-C1
J140-C1
J141-C1
J141-C1
J142-C1
J142-C1
J143-C1
J143-C1
J144-C1
0 ft
5950.0 ft
6000.0 ft
6050.0 ft
6100.0 ft


J144-C1
J145-C1
J145-C1
J146-C1
J146-C1
J147-C1
J147-C1
J148-C1
J148-C1
J149-C1
J149-C1
6150.0 ft
6200.0 ft
6250.0 ft
6300.0 ft


J150-C1
J150-C1
J151-C1
J151-C1
J152-C1
J152-C1
J153-C1
J153-C1
J154-C1
J154-C1
6350.0 ft
6400.0 ft
6450.0 ft
6500.0 ft
6550.0 ft


Marker joint
Example of External Hardware
J155-C1
J155-C1
J157-C1
J157-C1
J158-C1
J158-C1
J159-C1
J159-C1
J160-C1
6600.0 ft
6650.0 ft
6700.0 ft
6750.0 ft



Southern California Gas Co. Porter 72A

File 20160519_15572B_RSP_0_0_0_0_0_0.mvl

Joint Summary

Southern California Gas Co.
Aliso Canyon
Porter 72A

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	26.86	8.06	9.625	0.472	47.0	0			1
JT-2	34.92	40.12	9.625	0.472	47.0	0			1
JT-3	75.04	40.27	9.625	0.472	47.0	0			1
JT-4	115.31	40.00	9.625	0.472	47.0	0			1
JT-5	155.30	40.14	9.625	0.472	47.0	0			1
JT-6	195.44	40.04	9.625	0.472	47.0	0			1
JT-7	235.48	39.90	9.625	0.472	47.0	0			1
JT-8	275.38	40.00	9.625	0.472	47.0	0			1
JT-9	315.38	40.06	9.625	0.472	47.0	0			1
JT-10	355.44	43.04	9.625	0.472	47.0	0			1
JT-11	398.49	40.14	9.625	0.472	47.0	0			1
JT-12	438.63	44.02	9.625	0.472	47.0	0			1
JT-13	482.64	44.67	9.625	0.472	47.0	0			1
JT-14	527.32	43.35	9.625	0.472	47.0	0			1
JT-15	570.67	45.67	9.625	0.472	47.0	0			1
JT-16	616.34	45.32	9.625	0.472	47.0	0			1
JT-17	661.66	43.11	9.625	0.472	47.0	0			1
JT-18	704.77	44.43	9.625	0.472	47.0	0			1
JT-19	749.20	44.15	9.625	0.472	47.0	0			1
JT-20	793.35	46.45	9.625	0.472	47.0	28	829.45	8651	2
JT-21	839.80	45.69	9.625	0.472	47.0	21	846.69	8664	2
JT-22	885.49	45.08	9.625	0.472	47.0	20	886.84	8302	2
JT-23	930.57	42.77	9.625	0.472	47.0	38	934.25	8159	2
JT-24	973.34	44.17	9.625	0.472	47.0	20	988.96	8634	2
JT-25	1017.51	44.63	9.625	0.472	47.0	54	1033.83	5959	3
JT-26	1062.14	46.17	9.625	0.472	47.0	52	1076.73	6321	3
JT-27	1108.31	45.63	9.625	0.472	47.0	0			1
JT-28	1153.94	43.11	9.625	0.472	47.0	0			1
JT-29	1197.05	43.59	9.625	0.472	47.0	19	1225.54	8216	1
JT-30	1240.64	43.17	9.625	0.472	47.0	32	1248.68	8709	2
JT-31	1283.81	44.05	9.625	0.472	47.0	24	1293.24	8223	2
JT-32	1327.86	39.88	9.625	0.472	47.0	44	1333.46	8155	3
JT-33	1367.75	39.90	9.625	0.472	47.0	21	1395.87	8408	2
JT-34	1407.65	44.14	9.625	0.472	47.0	45	1434.40	6974	3
JT-35	1451.79	42.99	9.625	0.472	47.0	56	1452.49	5966	3
JT-36	1494.78	40.09	9.625	0.472	47.0	47	1495.88	7758	3
JT-37	1534.87	39.92	9.625	0.472	47.0	30	1537.34	8605	2
JT-38	1574.79	46.45	9.625	0.472	47.0	21	1576.79	8719	2
JT-39	1621.23	43.19	9.625	0.472	47.0	49	1641.47	7366	3
JT-40	1664.42	45.20	9.625	0.472	47.0	24	1665.09	8339	2
JT-41	1709.62	40.28	9.625	0.472	47.0	31	1714.92	8492	2
JT-42	1749.90	39.88	9.625	0.472	47.0	0			1
JT-43	1789.78	40.08	9.625	0.472	47.0	0			1
JT-44	1829.86	40.09	9.625	0.472	47.0	0			1
JT-45	1869.95	44.26	9.625	0.472	47.0	21	1899.68	8588	2
JT-46	1914.20	43.67	9.625	0.472	47.0	0			1
JT-47	1957.88	43.18	9.625	0.472	47.0	0			1
JT-48	2001.05	43.46	9.625	0.472	47.0	0			1
JT-49	2044.51	44.71	9.625	0.472	47.0	0			1
JT-50	2089.23	43.87	9.625	0.472	47.0	0			1

JT-51	2133.10	44.77	9.625	0.472	47.0	0			1
JT-52	2177.87	45.29	9.625	0.472	47.0	0			1
JT-53	2223.16	44.91	9.625	0.472	47.0	0			1
JT-54	2268.07	43.23	9.625	0.472	47.0	0			1
JT-55	2311.30	45.10	9.625	0.472	47.0	0			1
JT-56	2356.40	44.71	9.625	0.472	47.0	0			1
JT-57	2401.12	45.80	9.625	0.472	47.0	0			1
JT-58	2446.92	46.32	9.625	0.472	47.0	0			1
JT-59	2493.24	35.44	9.625	0.472	47.0	0			1
JT-60	2528.67	40.99	9.625	0.472	47.0	0			1
JT-61	2569.66	41.62	9.625	0.472	47.0	0			1
JT-62	2611.28	39.43	9.625	0.472	47.0	0			1
JT-63	2650.71	44.60	9.625	0.472	47.0	0			1
JT-64	2695.31	39.96	9.625	0.472	47.0	0			1
JT-65	2735.27	44.92	9.625	0.472	47.0	0			1
JT-66	2780.19	44.63	9.625	0.472	47.0	0			1
JT-67	2824.82	39.91	9.625	0.472	47.0	0			1
JT-68	2864.74	39.99	9.625	0.472	47.0	0			1
JT-69	2904.73	40.03	9.625	0.472	47.0	0			1
JT-70	2944.75	43.01	9.625	0.472	47.0	0			1
JT-71	2987.77	14.64	9.625	0.472	47.0	0			1
JT-72	3002.40	45.23	9.625	0.472	47.0	0			1
JT-73	3047.63	44.38	9.625	0.472	47.0	0			1
JT-74	3092.01	43.80	9.625	0.472	47.0	0			1
JT-75	3135.81	44.85	9.625	0.472	47.0	0			1
JT-76	3180.65	43.41	9.625	0.472	47.0	0			1
JT-77	3224.07	43.90	9.625	0.472	47.0	0			1
JT-78	3267.97	41.87	9.625	0.472	47.0	0			1
JT-79	3309.83	43.87	9.625	0.472	47.0	0			1
JT-80	3353.71	39.91	9.625	0.472	47.0	0			1
JT-81	3393.62	43.63	9.625	0.472	47.0	0			1
JT-82	3437.25	41.82	9.625	0.472	47.0	0			1
JT-83	3479.07	40.50	9.625	0.472	47.0	0			1
JT-84	3519.56	45.91	9.625	0.472	47.0	0			1
JT-85	3565.47	43.15	9.625	0.472	47.0	0			1
JT-86	3608.63	43.74	9.625	0.472	47.0	0			1
JT-87	3652.37	40.27	9.625	0.472	47.0	0			1
JT-88	3692.64	39.86	9.625	0.472	47.0	0			1
JT-89	3732.50	41.93	9.625	0.472	47.0	0			1
JT-90	3774.43	44.77	9.625	0.472	47.0	0			1
JT-91	3819.20	42.17	9.625	0.472	47.0	0			1
JT-92	3861.37	43.53	9.625	0.472	47.0	0			1
JT-93	3904.89	42.92	9.625	0.472	47.0	0			1
JT-94	3947.81	45.14	9.625	0.472	47.0	0			1
JT-95	3992.95	44.58	9.625	0.472	47.0	0			1
JT-96	4037.53	39.99	9.625	0.472	47.0	0			1
JT-97	4077.52	39.70	9.625	0.472	47.0	0			1
JT-98	4117.22	36.36	9.625	0.472	47.0	0			1
JT-99	4153.58	45.97	9.625	0.472	47.0	0			1
JT-100	4199.55	43.63	9.625	0.472	47.0	0			1
JT-101	4243.18	45.26	9.625	0.472	47.0	0			1
JT-102	4288.44	43.52	9.625	0.472	47.0	0			1
JT-103	4331.95	40.29	9.625	0.472	47.0	0			1
JT-104	4372.25	40.04	9.625	0.472	47.0	0			1
JT-105	4412.29	40.03	9.625	0.472	47.0	0			1
JT-106	4452.32	43.21	9.625	0.472	47.0	36	4488.87	8410	2
JT-107	4495.53	39.88	9.625	0.472	47.0	23	4496.49	8704	2
JT-108	4535.42	43.97	9.625	0.472	47.0	0			1
JT-109	4579.39	40.34	9.625	0.472	47.0	0			1
JT-110	4619.73	39.93	9.625	0.472	47.0	0			1
JT-111	4659.66	39.78	9.625	0.472	47.0	0			1
JT-112	4699.44	40.09	9.625	0.472	47.0	0			1
JT-113	4739.53	39.91	9.625	0.472	47.0	20	4778.11	8656	1
JT-114	4779.43	44.30	9.625	0.472	47.0	0			1
JT-115	4823.73	44.47	9.625	0.472	47.0	0			1
JT-116	4868.20	44.80	9.625	0.472	47.0	0			1
JT-117	4913.01	45.41	9.625	0.472	47.0	0			1
JT-118	4958.41	44.72	9.625	0.472	47.0	0			1
JT-119	5003.14	44.88	9.625	0.472	47.0	0			1
JT-120	5048.02	45.77	9.625	0.472	47.0	0			1
JT-121	5093.79	42.55	9.625	0.472	47.0	0			1
JT-122	5136.34	43.20	9.625	0.472	47.0	0			1
JT-123	5179.54	41.59	9.625	0.472	47.0	0			1
JT-124	5221.13	44.38	9.625	0.472	47.0	0			1
JT-125	5265.51	42.72	9.625	0.472	47.0	0			1
JT-126	5308.23	43.73	9.625	0.472	47.0	0			1
JT-127	5351.96	45.87	9.625	0.472	47.0	0			1
JT-128	5397.83	43.15	9.625	0.472	47.0	0			1
JT-129	5440.98	43.35	9.625	0.472	47.0	0			1
JT-130	5484.33	43.47	9.625	0.472	47.0	0			1

JT-131	5527.80	45.50	9.625	0.472	47.0	0	1
JT-132	5573.30	46.27	9.625	0.472	47.0	0	1
JT-133	5619.57	43.56	9.625	0.472	47.0	0	1
JT-134	5663.13	45.09	9.625	0.472	47.0	0	1
JT-135	5708.23	44.44	9.625	0.472	47.0	0	1
JT-136	5752.67	45.45	9.625	0.472	47.0	0	1
JT-137	5798.12	43.85	9.625	0.472	47.0	0	1
JT-138	5841.97	44.23	9.625	0.472	47.0	0	1
JT-139	5886.20	40.39	9.625	0.472	47.0	0	1
JT-140	5926.59	44.02	9.625	0.472	47.0	0	1
JT-141	5970.60	44.32	9.625	0.472	47.0	0	1
JT-142	6014.93	45.41	9.625	0.472	47.0	0	1
JT-143	6060.34	43.38	9.625	0.472	47.0	0	1
JT-144	6103.72	40.80	9.625	0.472	47.0	0	1
JT-145	6144.51	40.39	9.625	0.472	47.0	0	1
JT-146	6184.91	41.83	9.625	0.472	47.0	0	1
JT-147	6226.73	43.00	9.625	0.472	47.0	0	1
JT-148	6269.73	43.95	9.625	0.472	47.0	0	1
JT-149	6313.68	40.73	9.625	0.472	47.0	0	1
JT-150	6354.41	40.83	9.625	0.472	47.0	0	1
JT-151	6395.24	39.85	9.625	0.472	47.0	0	1
JT-152	6435.08	43.86	9.625	0.472	47.0	0	1
JT-153	6478.94	43.25	9.625	0.472	47.0	0	1
JT-154	6522.19	43.90	9.625	0.472	47.0	0	1
JT-155	6566.09	44.47	9.625	0.472	47.0	0	1
JT-156	6610.56	14.97	9.625	0.472	47.0	0	1
JT-157	6625.54	44.44	9.625	0.472	47.0	0	1
JT-158	6669.98	44.21	9.625	0.472	47.0	0	1
JT-159	6714.19	44.30	9.625	0.472	47.0	0	1
JT-160	6758.49	25.16	9.625	0.472	47.0	0	1