HR Vertilog

Magnetic Flux Leakage Inspection

Advanced Analysis

Company	Southern California Gas Company
Well	Porter 72B
Field	Aliso Canyon
County	Los Angeles
State	California

Location:

909' S & 668' W from station 84

Section 27	Township 3N	Range 16W	

Date	Jun. 30, 2016
Service Order	US108142
Recorded by	A. Smith/ B. Deal
Witnessed by	Ben Kohner
API Serial No.	04-037-24146

Permanent Datum:	G.L.	Elevation: 1909	ft.	Depth	7226
Log Measured From:	K.B.	24	ft. above Perm. Datum	Btm. Log Interval	6696
Drilling Measured From:	K.B.		ft. above Perm. Datum	Top Log Interval	0
				Fluid Type	KCL

Casing Data

Size	Weight	Grade	From	To	Length
9 5/8 inch	47 lb\ft	N80 (HR STD)	0	6828	6828.0
13.375 inch	54.5 lb\ft	K55	0	815	815.0

Equipment Data

Tool	7 to 9-5/8 Inch HRVRT 96 FL + 96 DIS Tool
Magnetizer	7 to 9-5/8 Inch HRVRT 96 FL + 96 DIS Tool
Telemetry	MUX-DB
Software Version	6.0.0.0

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

HRVRT analysis was depth correlated to Baker Hughes Processed Caliper logged 29 June 2016. Caliper was correlated to SLB GR-CCL logged 28 June 2016.

25.55 ft Hardware - External casing head response.
815.00 ft Hardware - Possible Bottom of 13.375" external casing, documented in the casing records.
1417.59 ft Hardware - Centralizer
1507.36 ft Hardware - Centralizer
1597.48 ft Hardware - Centralizer
1686.39 ft Hardware - Centralizer
1777.26 ft Hardware - Centralizer
1866.59 ft Hardware - Centralizer
1954.26 ft Hardware - Centralizer
2044.86 ft Hardware - Centralizer
2134.30 ft Hardware - Centralizer
2222.47 ft Hardware - Centralizer
2311.56 ft Hardware - Centralizer
2400.94 ft Hardware - Centralizer
2488.41 ft Hardware - Centralizer
2577.22 ft Hardware - Centralizer
2662.15 ft Hardware - Centralizer
2750.43 ft Hardware - Centralizer
2838.29 ft Hardware - Centralizer
2920.79 ft Hardware - Centralizer
3023.35 ft Hardware - Centralizer
3110.96 ft Hardware - Centralizer
3199.87 ft Hardware - Centralizer
3288.70 ft Hardware - Centralizer
3377.31 ft Hardware - Centralizer
3465.72 ft Hardware - Centralizer
3555.24 ft Hardware - Centralizer
3642.61 ft Hardware - Centralizer
3733.50 ft Hardware - Centralizer
3821.82 ft Hardware - Centralizer
3908.45 ft Hardware - Centralizer
4000.37 ft Hardware - Centralizer
4087.76 ft Hardware - Centralizer
4176.82 ft Hardware - Centralizer
4265.75 ft Hardware - Centralizer
4351.74 ft Hardware - Centralizer
4441.07 ft Hardware - Centralizer
4530.03 ft Hardware - Centralizer
4617.99 ft Hardware - Centralizer
4708.14 ft Hardware - Centralizer
4796.85 ft Hardware - Centralizer
4884.15 ft Hardware - Centralizer
4972.61 ft Hardware - Centralizer
5064.69 ft Hardware - Centralizer
5154.62 ft Hardware - Centralizer
5241.15 ft Hardware - Centralizer
5329.40 ft Hardware - Centralizer
5374.45 ft Hardware - Centralizer
5417.97 ft Hardware - Centralizer
5462.15 ft Hardware - Centralizer
5506.41 ft Hardware - Centralizer
5551.40 ft Hardware - Centralizer
5596.67 ft Hardware - Centralizer
5643.08 ft Hardware - Centralizer
5687.17 ft Hardware - Centralizer
5729.55 ft Hardware - Centralizer
5773.34 ft Hardware - Centralizer
5862.04 ft Hardware - Centralizer
5951.45 ft Hardware - Centralizer
6037.95 ft Hardware - Centralizer
6128.69 ft Hardware - Centralizer
6215.65 ft Hardware - Centralizer

6215.65 ft Hardware - Centralizer
6305.40 ft Hardware - Centralizer
6392.80 ft Hardware - Centralizer
6437.49 ft Hardware - Centralizer
6482.54 ft Hardware - Centralizer
6527.62 ft Hardware - Centralizer
6585.87 ft Hardware - Centralizer
6610.65 ft Hardware - Centralizer
6618.15 ft Hardware - Centralizer
6630.40 ft Hardware - Centralizer
6640.17 ft Hardware - Centralizer
6649.46 ft Hardware - Centralizer
6666.34 ft Hardware - Centralizer

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	ID/OD
1	24.07	41.54	17.47	Class 1	-	-	-
2	41.54	86.39	44.85	Class 2	21.0%	55.35	OD
3	86.39	132.07	45.68	Class 1	-	-	-
4	132.07	175.76	43.69	Class 1	-	-	-
5	175.76	220.71	44.95	Class 1	-	-	-
6	220.71	264.76	44.05	Class 1	-	-	-
7	264.76	308.85	44.09	Class 1	-	-	-
8	308.85	354.39	45.54	Class 1	-	-	-
9	354.39	397.22	42.83	Class 1	-	-	-
10	397.22	442.04	44.82	Class 1	-	-	-
11	442.04	486.37	44.33	Class 1	-	-	-
12	486.37	530.49	44.12	Class 1	-	-	-
13	530.49	574.57	44.08	Class 1	-	-	-
14	574.57	620.36	45.79	Class 1	-	-	-
15	620.36	664.07	43.71	Class 1	-	-	-
16	664.07	709.55	45.48	Class 1	-	-	-
17	709.55	753.80	44.25	Class 1	-	-	-
18	753.80	799.18	45.38	Class 1	-	-	-
19	799.18	841.60	42.42	Class 1	-	-	-
20	841.60	886.71	45.11	Class 1	-	-	-
21	886.71	932.11	45.40	Class 1	-	-	-
22	932.11	978.00	45.89	Class 1	-	-	-
23	978.00	1021.10	43.10	Class 1	-	-	-
24	1021.10	1067.70	46.60	Class 1	-	-	-
25	1067.70	1112.57	44.87	Class 1	-	-	-
26	1112.57	1157.15	44.58	Class 1	-	-	-
27	1157.15	1200.97	43.82	Class 1	-	-	-
28	1200.97	1247.51	46.54	Class 1	-	-	-
29	1247.51	1291.14	43.63	Class 1	-	-	-
30	1291.14	1337.13	45.99	Class 1	-	-	-
31	1337.13	1382.86	45.73	Class 1	-	-	-
32	1382.86	1417.60	34.74	Class 1	-	-	-
33	1417.60	1463.19	45.59	Class 1	-	-	-
34	1463.19	1507.37	44.18	Class 1	-	-	-
35	1507.37	1552.77	45.40	Class 1	-	-	-
36	1552.77	1597.45	44.68	Class 1	-	-	-
37	1597.45	1642.09	44.64	Class 1	-	-	-
38	1642.09	1686.40	44.31	Class 1	-	-	-
39	1686.40	1732.35	45.95	Class 1	-	-	-
40	1732.35	1777.27	44.92	Class 1	-	-	-
41	1777.27	1821.91	44.64	Class 1	-	-	-

42	1821.91	1866.62	44.71	Class 1	-	-	-
43	1866.62	1909.38	42.76	Class 1	-	-	-
44	1909.38	1954.23	44.85	Class 1	-	-	-
45	1954.23	1998.60	44.37	Class 1	-	-	-
46	1998.60	2044.85	46.25	Class 1	-	-	-
47	2044.85	2089.44	44.59	Class 1	-	-	-
48	2089.44	2134.32	44.88	Class 1	-	-	-
49	2134.32	2177.80	43.48	Class 1	-	-	-
50	2177.80	2222.49	44.69	Class 1	-	-	-
51	2222.49	2265.22	42.73	Class 1	-	-	-
52	2265.22	2311.53	46.31	Class 1	-	-	-
53	2311.53	2357.03	45.50	Class 1	-	-	-
54	2357.03	2400.85	43.82	Class 1	-	-	-
55	2400.85	2445.66	44.81	Class 1	-	-	-
56	2445.66	2488.40	42.74	Class 1	-	-	-
57	2488.40	2533.19	44.79	Class 1	-	-	-
58	2533.19	2577.16	43.97	Class 1	-	-	-
59	2577.16	2620.37	43.21	Class 1	-	-	-
60	2620.37	2662.24	41.87	Class 1	-	-	-
61	2662.24	2707.07	44.83	Class 1	-	-	-
62	2707.07	2750.42	43.35	Class 1	-	-	-
63	2750.42	2793.04	42.62	Class 1	-	-	-
64	2793.04	2838.34	45.30	Class 1	-	-	-
65	2838.34	2874.05	35.71	Class 1	-	-	-
66	2874.05	2920.82	46.77	Class 1	-	-	-
67	2920.82	2964.69	43.87	Class 1	-	-	-
68	2964.69	3008.03	43.34	Class 1	-	-	-
69	3008.03	3023.34	15.31	Class 1	-	-	-
70	3023.34	3068.37	45.03	Class 1	-	-	-
71	3068.37	3110.98	42.61	Class 1	-	-	-
72	3110.98	3155.85	44.87	Class 1	-	-	-
73	3155.85	3199.89	44.04	Class 1	-	-	-
74	3199.89	3244.60	44.71	Class 1	-	-	-
75	3244.60	3288.68	44.08	Class 1	-	-	-
76	3288.68	3333.38	44.70	Class 1	-	-	-
77	3333.38	3377.26	43.88	Class 1	-	-	-
78	3377.26	3421.78	44.52	Class 1	-	-	-
79	3421.78	3465.67	43.89	Class 1	-	-	-
80	3465.67	3509.98	44.31	Class 1	-	-	-
81	3509.98	3555.19	45.21	Class 1	-	-	-
82	3555.19	3599.06	43.87	Class 1	-	-	-
83	3599.06	3642.60	43.54	Class 1	-	-	-
84	3642.60	3687.16	44.56	Class 1	-	-	-
85	3687.16	3733.55	46.39	Class 1	-	-	-
86	3733.55	3777.16	43.61	Class 1	-	-	-
87	3777.16	3821.79	44.63	Class 1	-	-	-
88	3821.79	3863.94	42.15	Class 1	-	-	-
89	3863.94	3908.38	44.44	Class 1	-	-	-
90	3908.38	3954.63	46.25	Class 1	-	-	-
91	3954.63	4000.34	45.71	Class 1	-	-	-
92	4000.34	4042.52	42.18	Class 1	-	-	-
93	4042.52	4087.69	45.17	Class 1	-	-	-
94	4087.69	4131.34	43.65	Class 1	-	-	-
95	4131.34	4176.76	45.42	Class 1	-	-	-
96	4176.76	4221.24	44.48	Class 1	-	-	-
97	4221.24	4265.71	44.47	Class 1	-	-	-
98	4265.71	4309.99	44.28	Class 1	-	-	-
99	4309.99	4351.64	41.65	Class 1	-	-	-
100	4351.64	4396.73	45.09	Class 1	-	-	-
101	4396.73	4441.06	44.33	Class 1	-	-	-
102	4441.06	4485.94	44.88	Class 1	-	-	-
103	4485.94	4530.01	44.07	Class 1	-	-	-
104	4530.01	4574.12	44.11	Class 1	-	-	-

105	4574.12	4617.93	43.81	Class 1	-	-	-
106	4617.93	4664.28	46.35	Class 1	-	-	-
107	4664.28	4708.13	43.85	Class 1	-	-	-
108	4708.13	4752.21	44.08	Class 1	-	-	-
109	4752.21	4796.79	44.58	Class 1	-	-	-
110	4796.79	4841.05	44.26	Class 1	-	-	-
111	4841.05	4884.11	43.06	Class 1	-	-	-
112	4884.11	4929.55	45.44	Class 1	-	-	-
113	4929.55	4972.58	43.03	Class 1	-	-	-
114	4972.58	5018.19	45.61	Class 1	-	-	-
115	5018.19	5064.71	46.52	Class 1	-	-	-
116	5064.71	5109.10	44.39	Class 1	-	-	-
117	5109.10	5154.64	45.54	Class 1	-	-	-
118	5154.64	5199.46	44.82	Class 1	-	-	-
119	5199.46	5241.10	41.64	Class 1	-	-	-
120	5241.10	5283.95	42.85	Class 1	-	-	-
121	5283.95	5329.36	45.41	Class 1	-	-	-
122	5329.36	5374.46	45.10	Class 1	-	-	-
123	5374.46	5417.95	43.49	Class 1	-	-	-
124	5417.95	5462.08	44.13	Class 1	-	-	-
125	5462.08	5506.37	44.29	Class 1	-	-	-
126	5506.37	5551.36	44.99	Class 1	-	-	-
127	5551.36	5596.56	45.20	Class 1	-	-	-
128	5596.56	5643.05	46.49	Class 1	-	-	-
129	5643.05	5687.18	44.13	Class 1	-	-	-
130	5687.18	5729.49	42.31	Class 1	-	-	-
131	5729.49	5773.30	43.81	Class 1	-	-	-
132	5773.30	5817.08	43.78	Class 1	-	-	-
133	5817.08	5862.04	44.96	Class 1	-	-	-
134	5862.04	5906.28	44.24	Class 1	-	-	-
135	5906.28	5951.49	45.21	Class 1	-	-	-
136	5951.49	5992.49	41.00	Class 1	-	-	-
137	5992.49	6037.92	45.43	Class 1	-	-	-
138	6037.92	6083.19	45.27	Class 1	-	-	-
139	6083.19	6128.67	45.48	Class 1	-	-	-
140	6128.67	6171.59	42.92	Class 1	-	-	-
141	6171.59	6215.67	44.08	Class 1	-	-	-
142	6215.67	6260.07	44.40	Class 1	-	-	-
143	6260.07	6305.33	45.26	Class 1	-	-	-
144	6305.33	6348.71	43.38	Class 1	-	-	-
145	6348.71	6392.78	44.07	Class 1	-	-	-
146	6392.78	6437.51	44.73	Class 1	-	-	-
147	6437.51	6482.55	45.04	Class 1	-	-	-
148	6482.55	6527.64	45.09	Class 1	-	-	-
149	6527.64	6542.69	15.05	Class 1	-	-	-
150	6542.69	6585.86	43.17	Class 1	-	-	-
151	6585.86	6630.46	44.60	Class 1	-	-	-
152	6630.46	6668.00	37.54	Class 1	-	-	-

Southern California Gas Company Porter 72B

File 20160629_141259_RSP_0_0_0_0_0_0.mvl

MAIN LOG

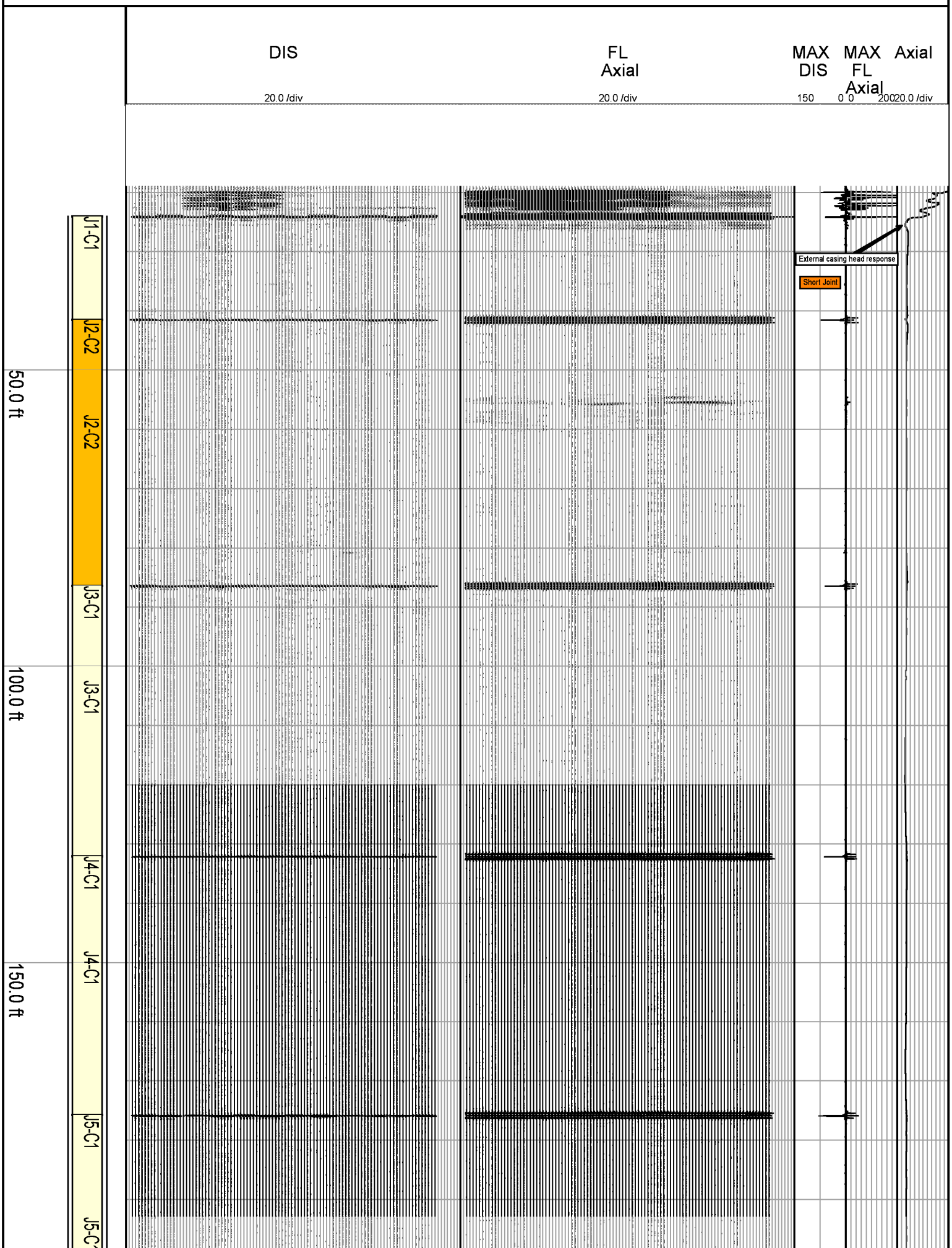
5" /100'

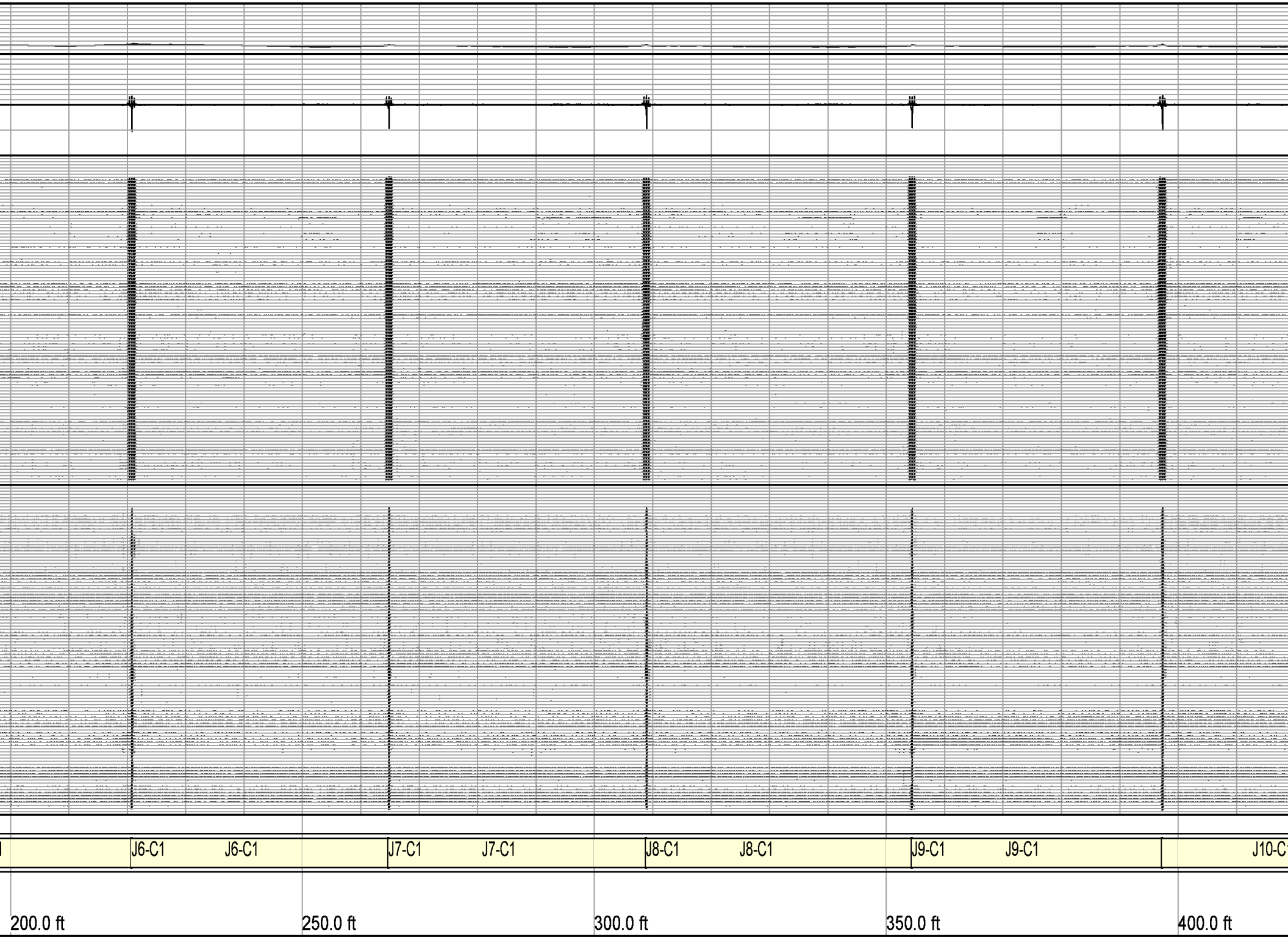
Class 1
0 - 20%

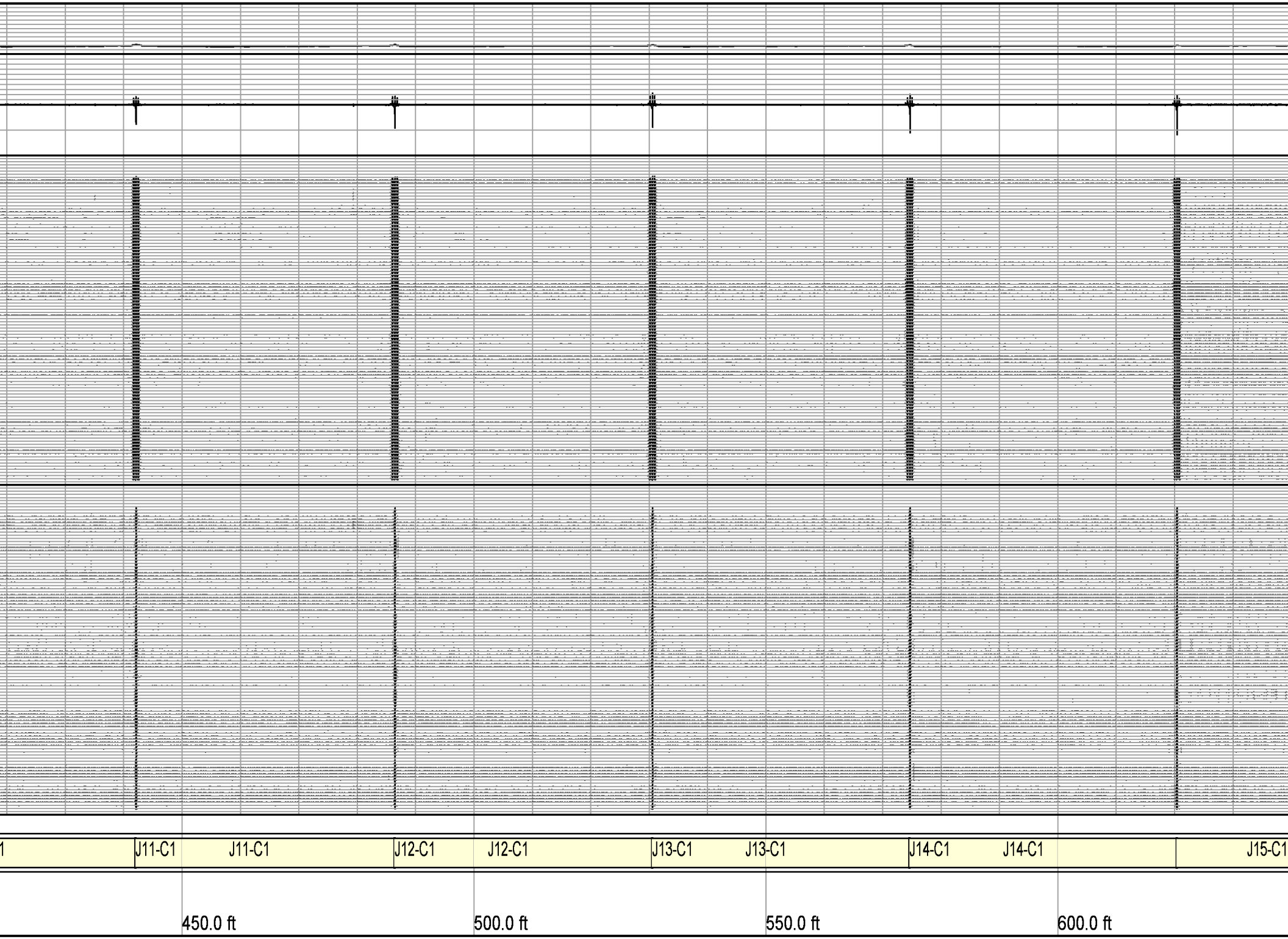
Class 2
20 - 40%

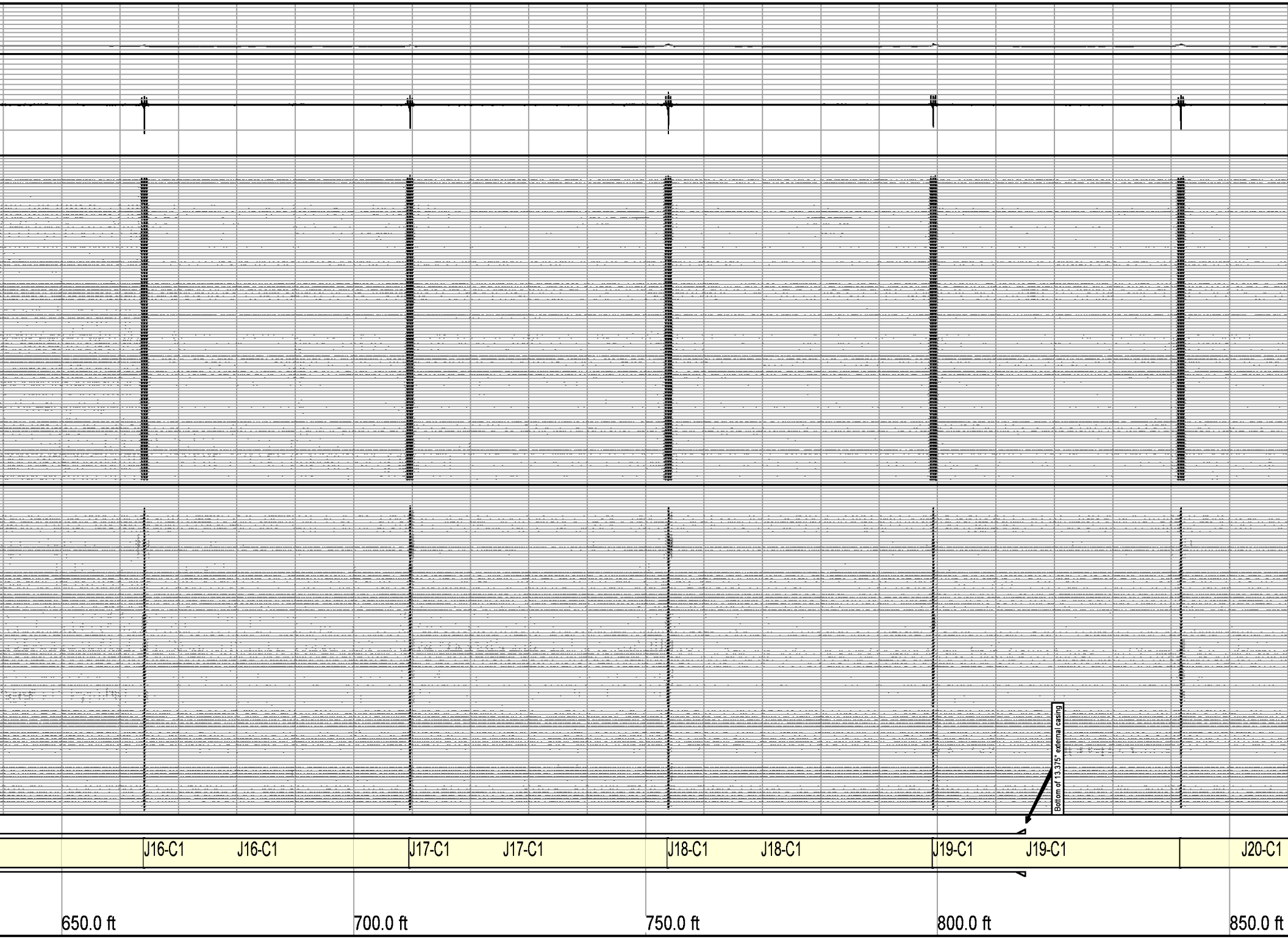
Class 3
40 - 60%

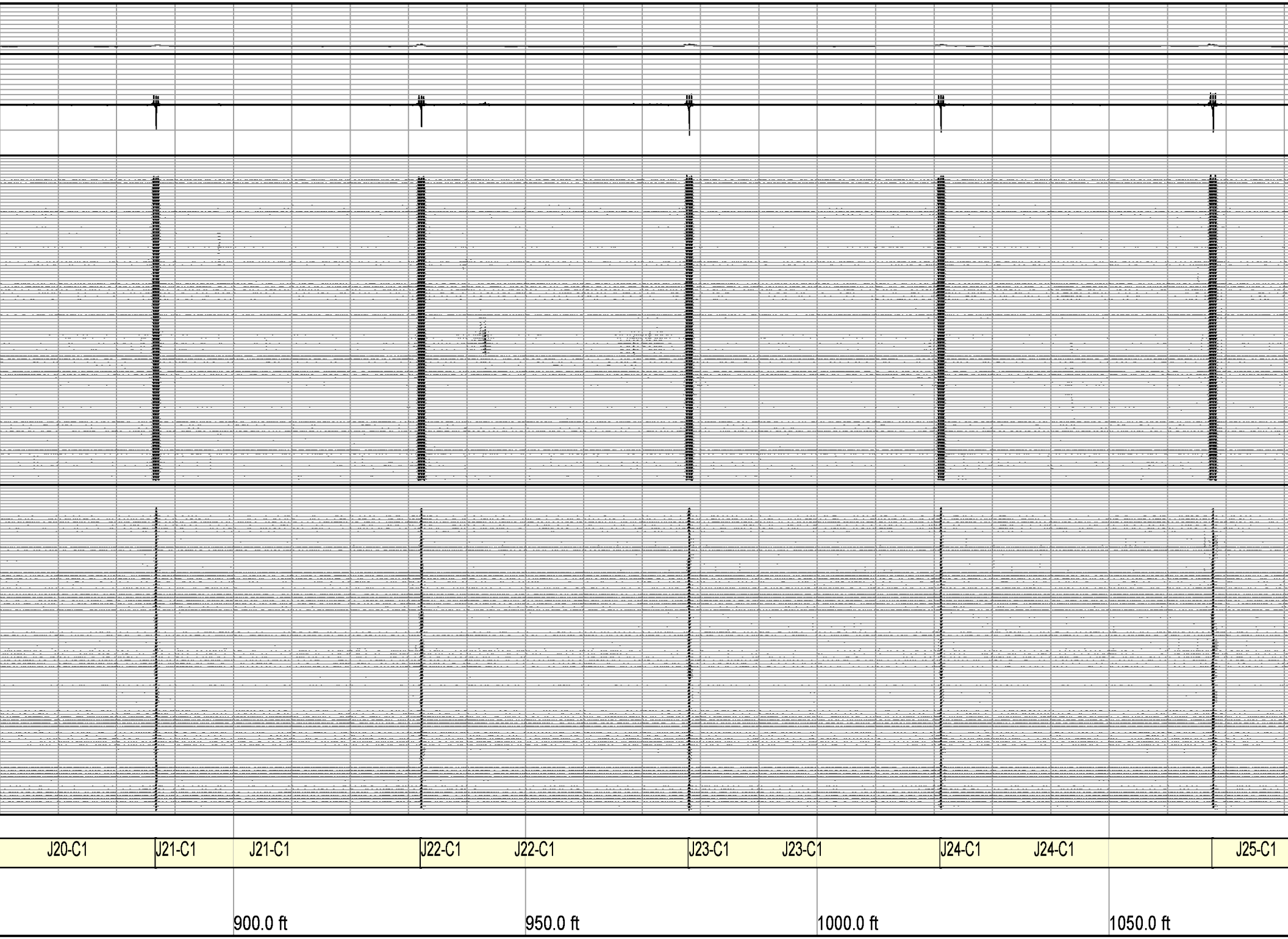
Class 4
60 - 100%

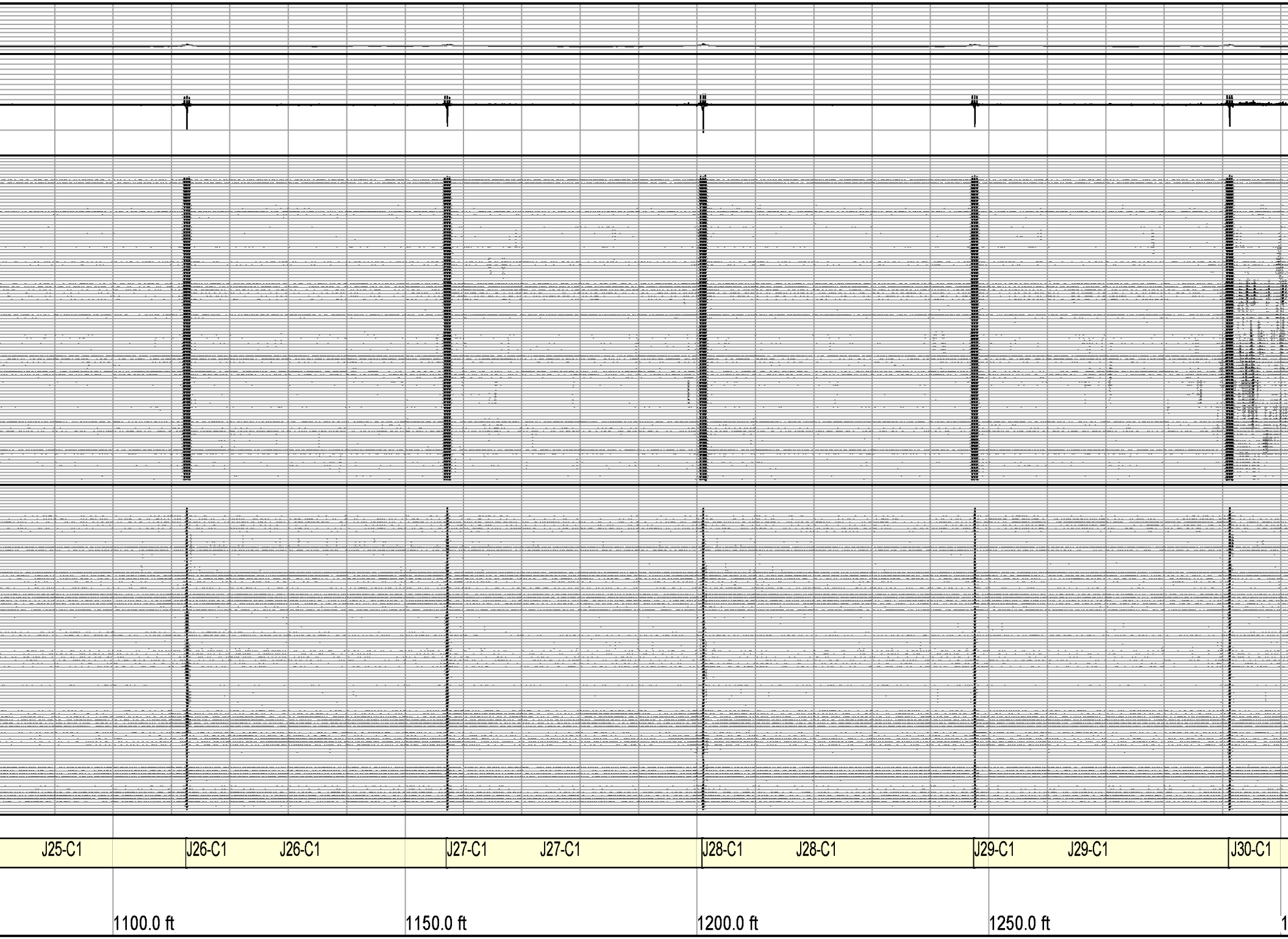


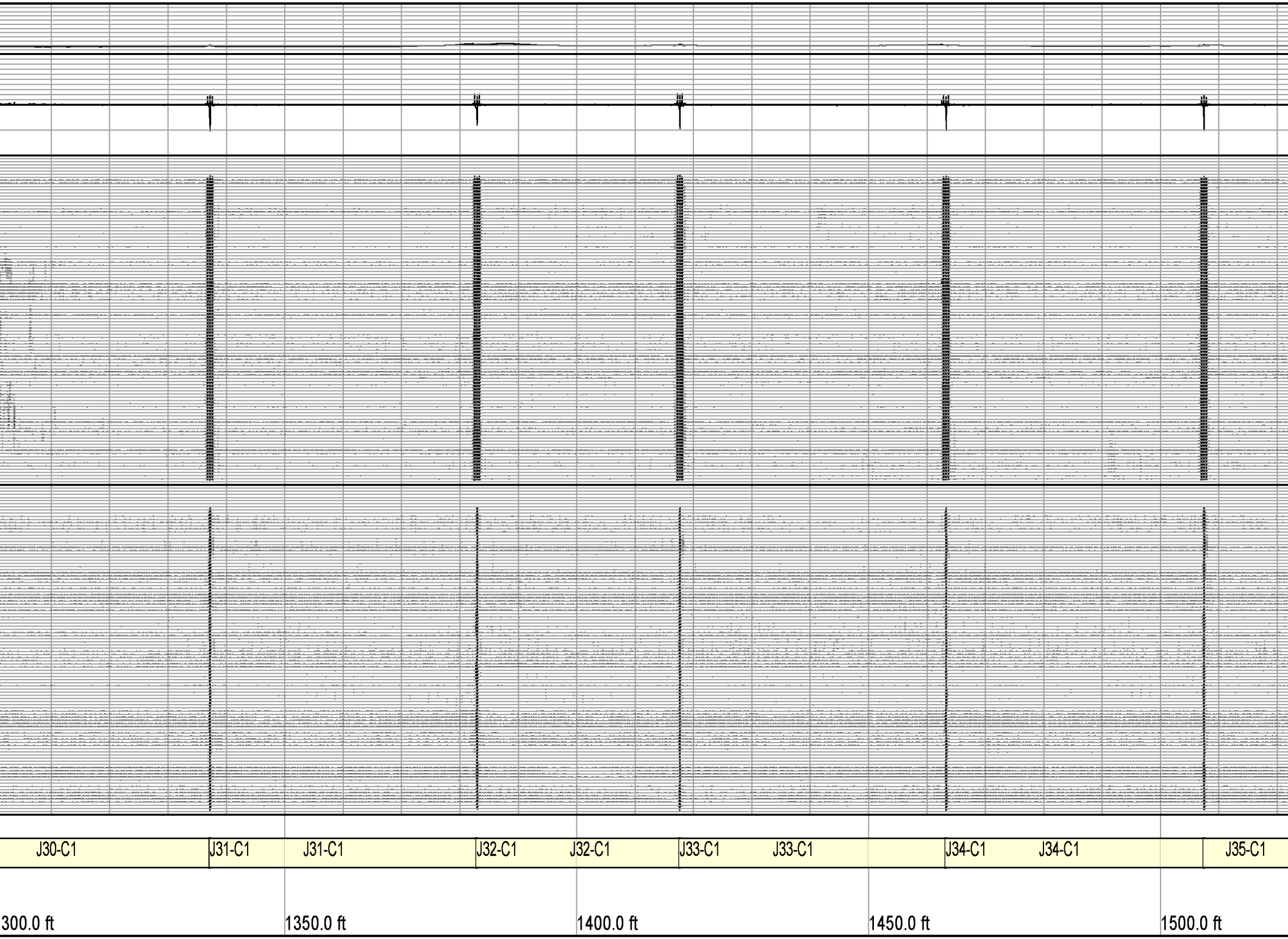

J6-C1
J6-C1
J7-C1
J7-C1
J8-C1
J8-C1
J9-C1
J9-C1
J10-C
200.0 ft
250.0 ft
300.0 ft
350.0 ft
400.0 ft

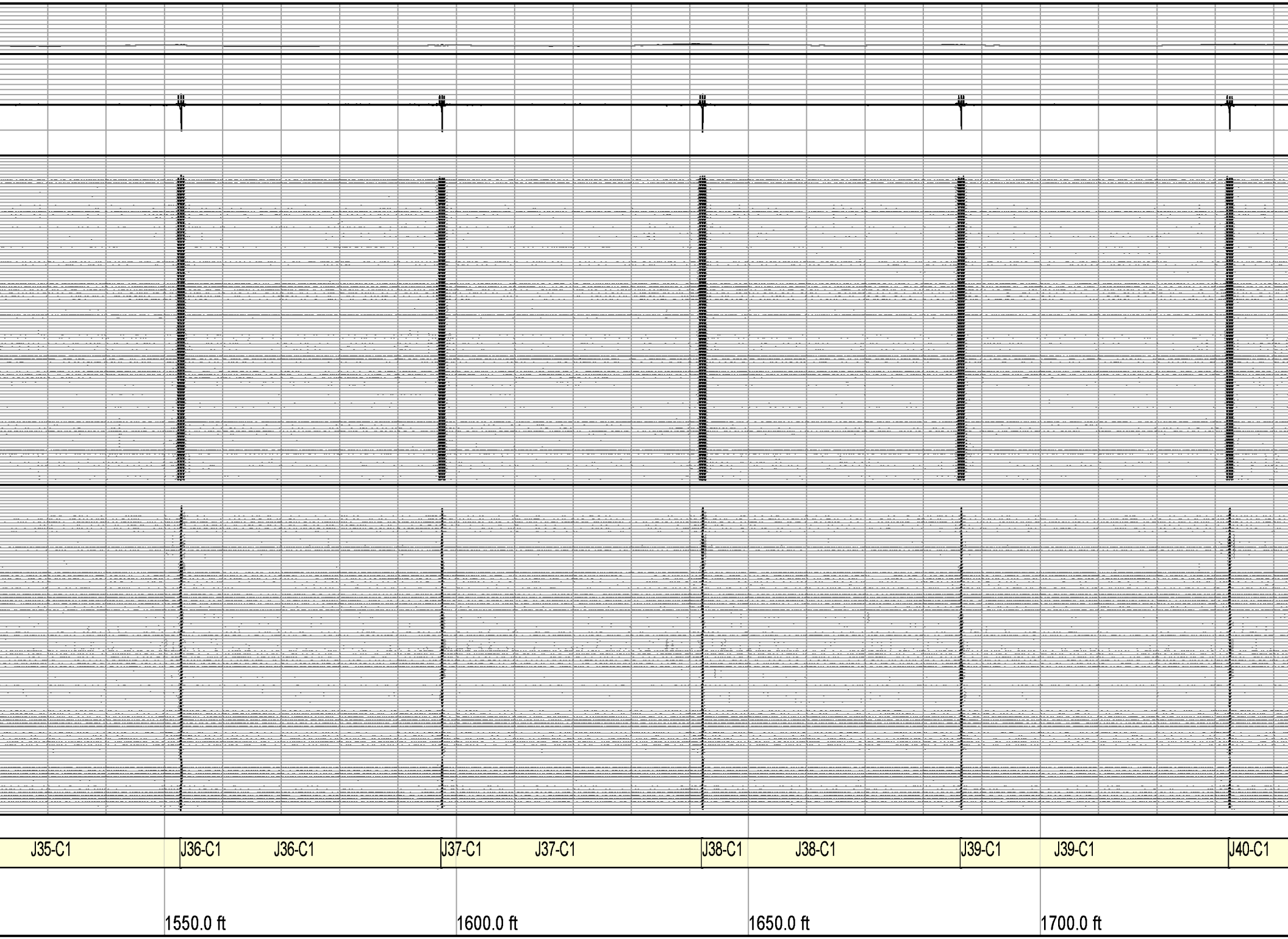

J11-C1
J11-C1
J12-C1
J12-C1
J13-C1
J13-C1
J14-C1
J14-C1
J15-C1
450.0 ft
500.0 ft
550.0 ft
600.0 ft

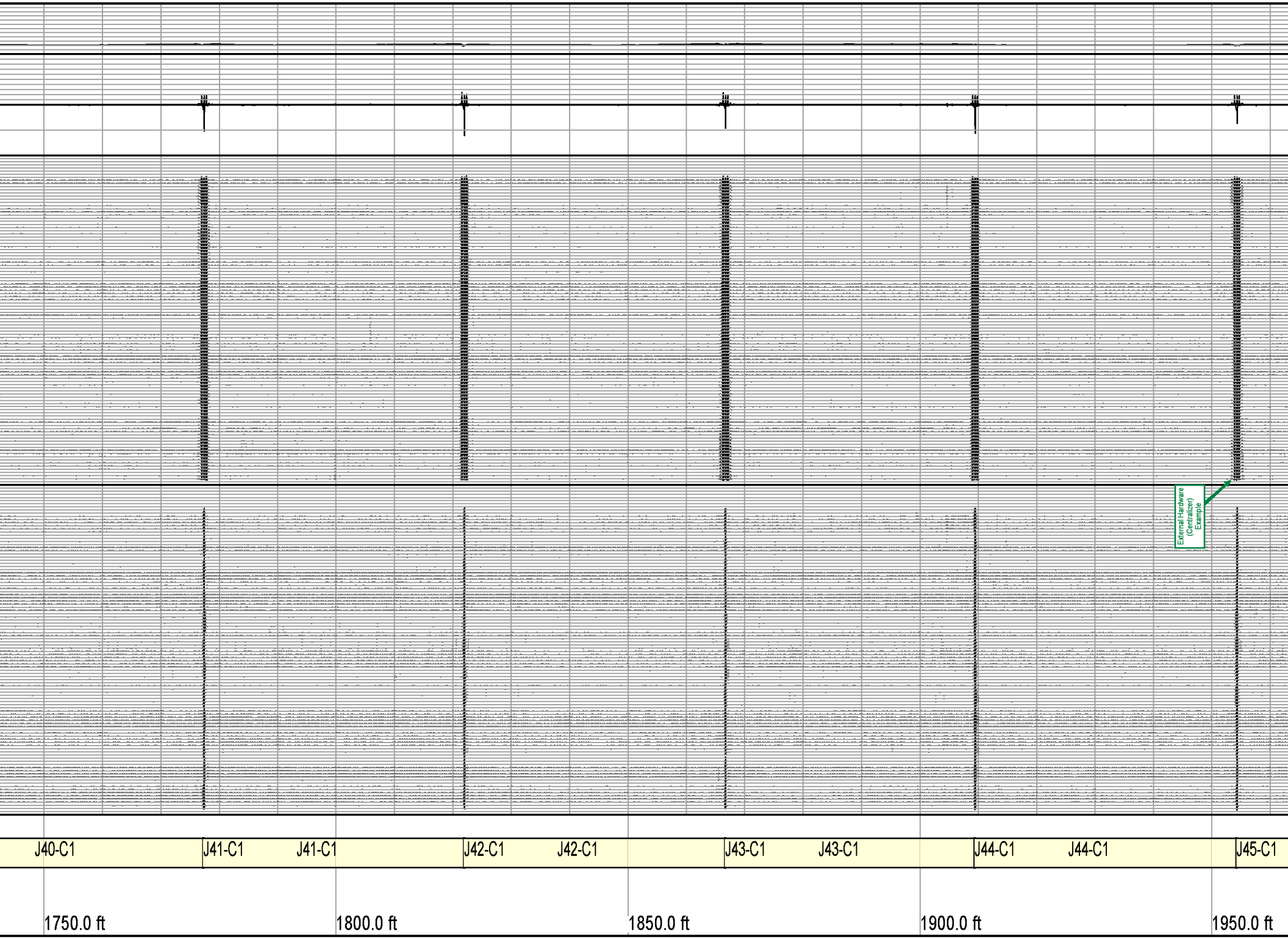

Bottom of 13.375" external casing
J16-C1
J16-C1
J17-C1
J17-C1
J18-C1
J18-C1
J19-C1
J19-C1
J20-C1
650.0 ft
700.0 ft
750.0 ft
800.0 ft
850.0 ft

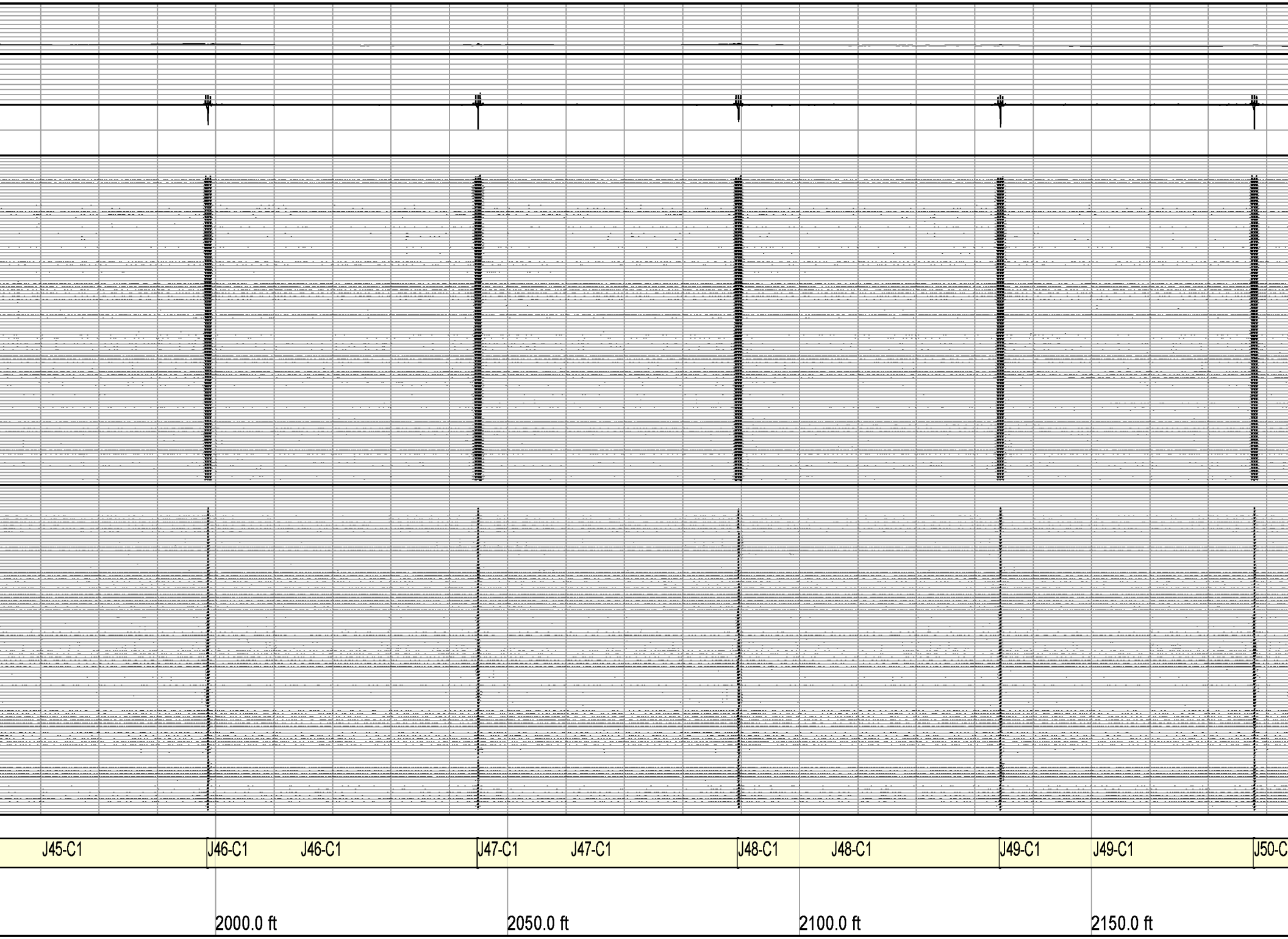

J20-C1
J21-C1
J21-C1
J22-C1
J22-C1
J23-C1
J23-C1
J24-C1
J24-C1
J25-C1
900.0 ft
950.0 ft
1000.0 ft
1050.0 ft

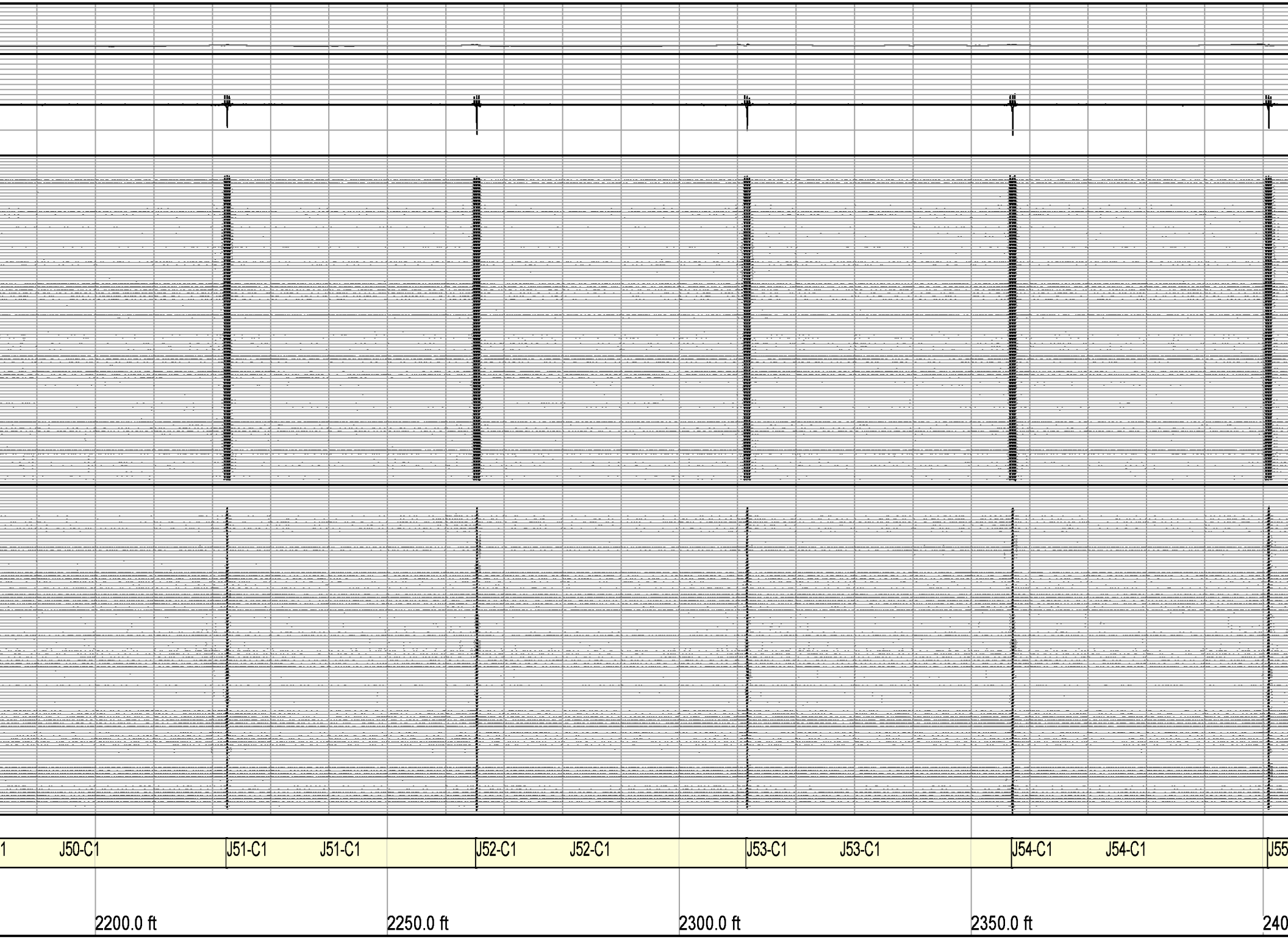

J25-C1
J26-C1
J26-C1
J27-C1
J27-C1
J28-C1
J28-C1
J29-C1
J29-C1
J30-C1
1100.0 ft
1150.0 ft
1200.0 ft
1250.0 ft

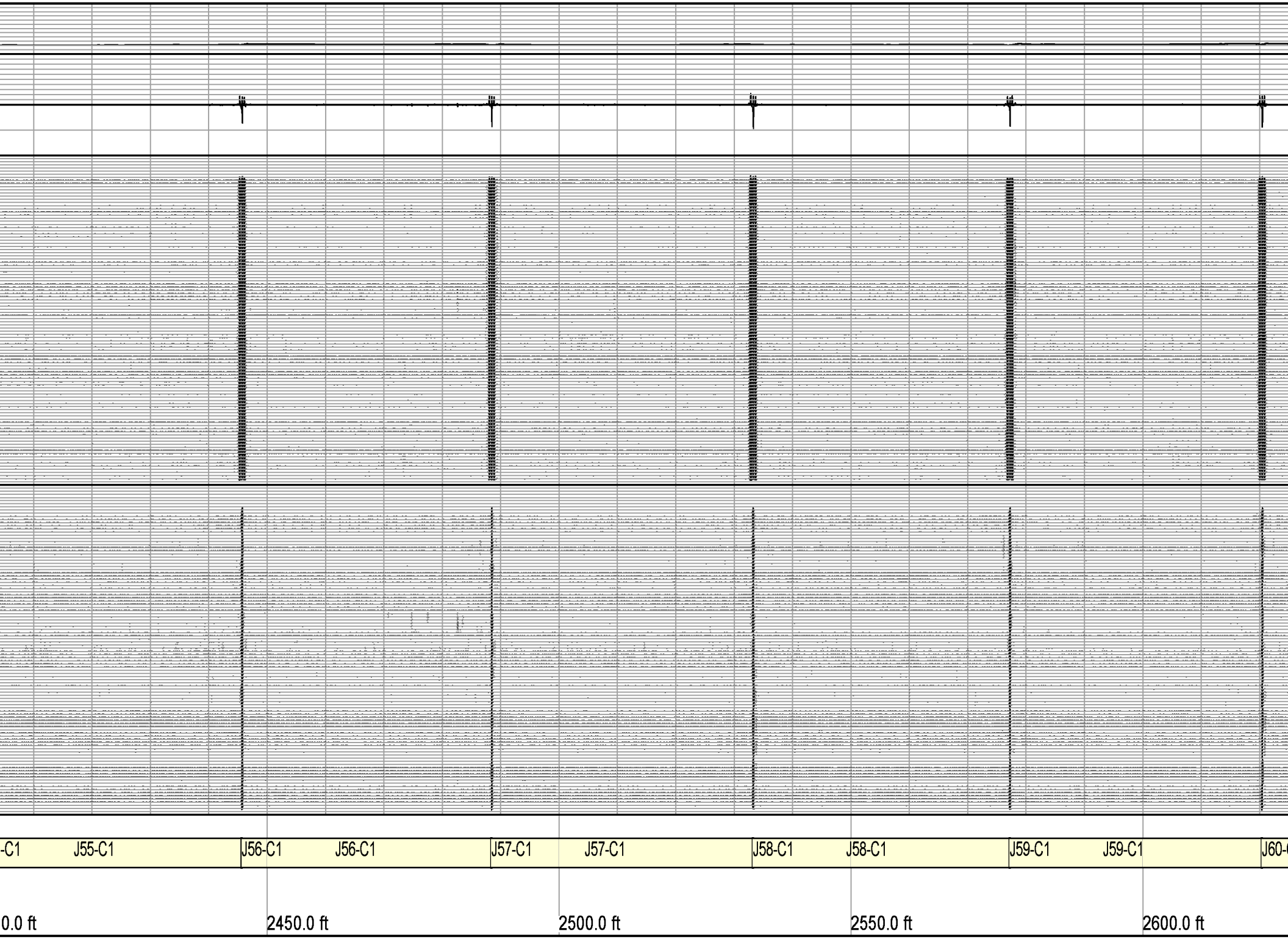

J30-C1
J31-C1
J31-C1
J32-C1
J32-C1
J33-C1
J33-C1
J34-C1
J34-C1
J35-C1
300.0 ft
1350.0 ft
1400.0 ft
1450.0 ft
1500.0 ft

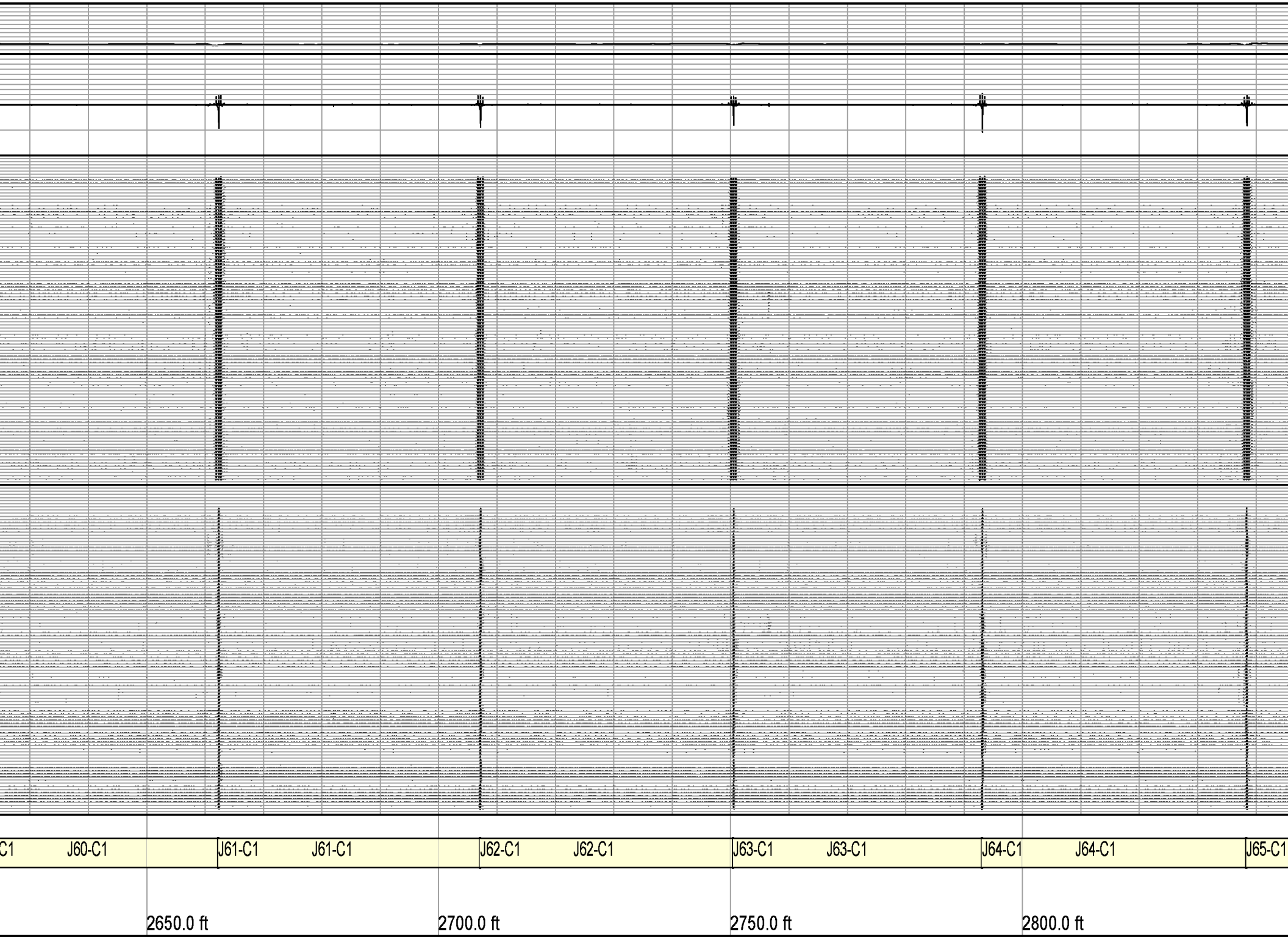

J35-C1
J36-C1
J36-C1
J37-C1
J37-C1
J38-C1
J38-C1
J39-C1
J39-C1
J40-C1
1550.0 ft
1600.0 ft
1650.0 ft
1700.0 ft

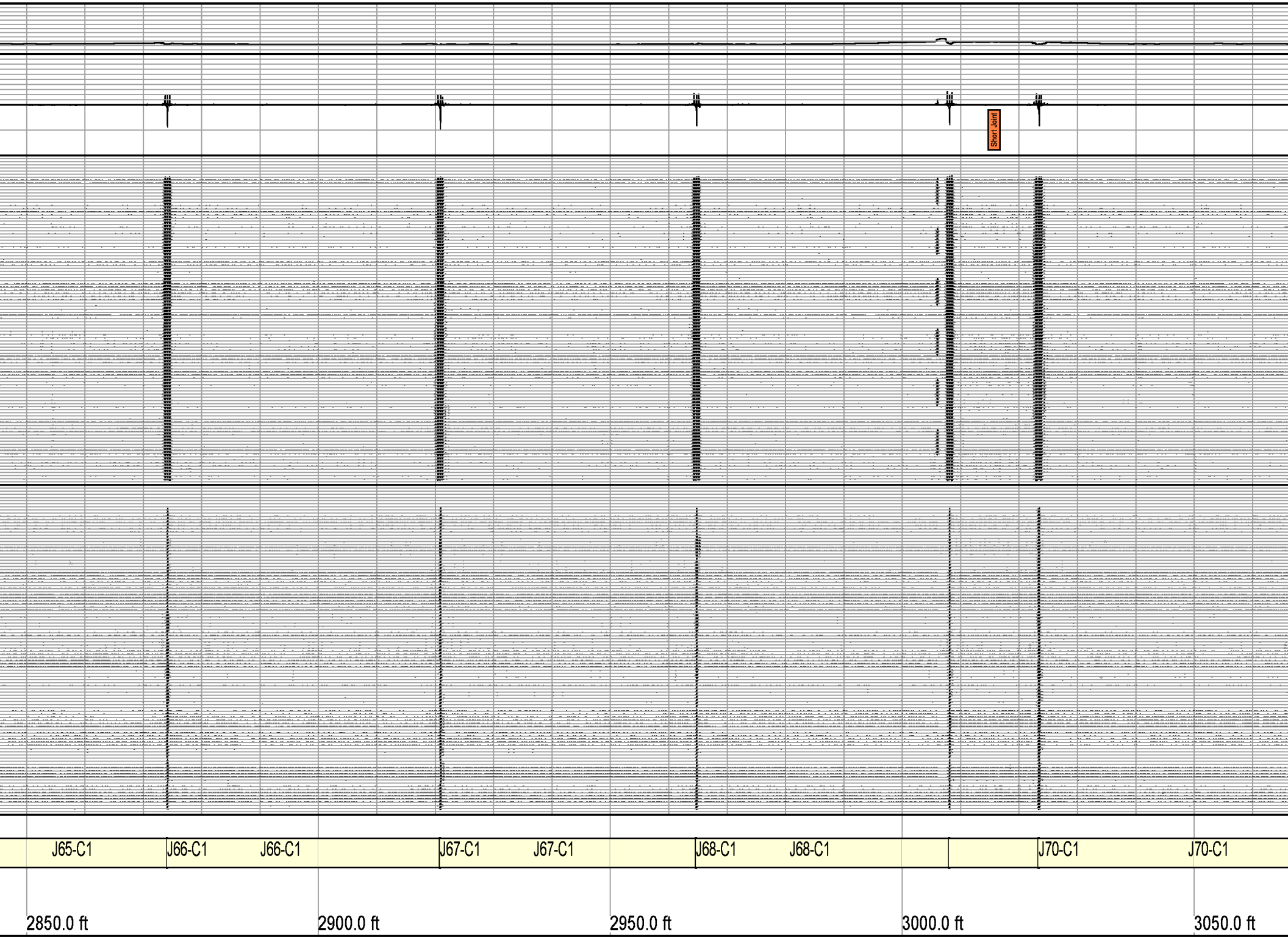

External Hardware (Centralizer) Example
J40-C1
J41-C1
J41-C1
J42-C1
J42-C1
J43-C1
J43-C1
J44-C1
J44-C1
J45-C1
1750.0 ft
1800.0 ft
1850.0 ft
1900.0 ft
1950.0 ft

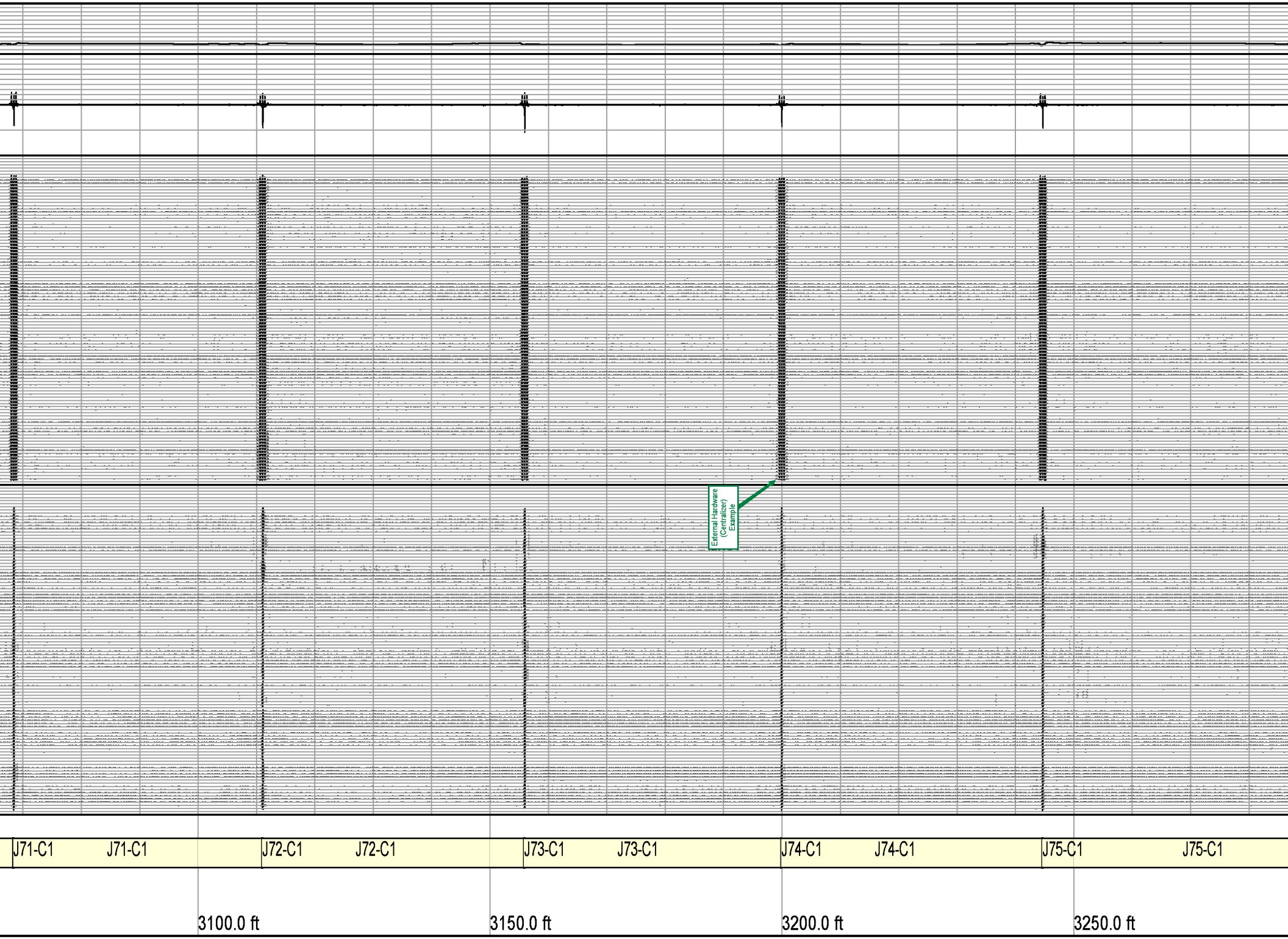

J45-C1
J46-C1
J46-C1
J47-C1
J47-C1
J48-C1
J48-C1
J49-C1
J49-C1
J50-C
2000.0 ft
2050.0 ft
2100.0 ft
2150.0 ft

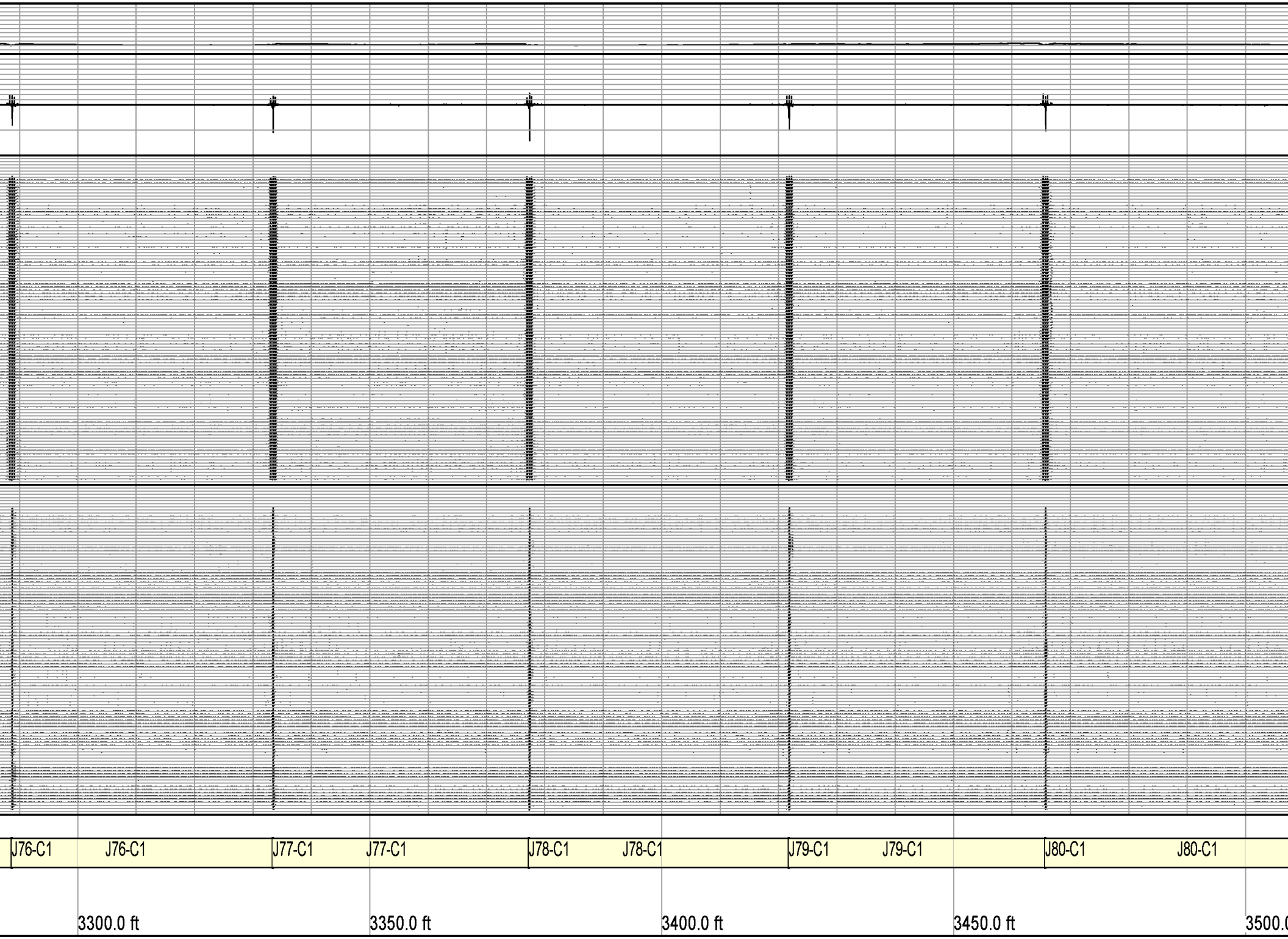

1
J50-C1
J51-C1
J51-C1
J52-C1
J52-C1
J53-C1
J53-C1
J54-C1
J54-C1
J55
2200.0 ft
2250.0 ft
2300.0 ft
2350.0 ft
240

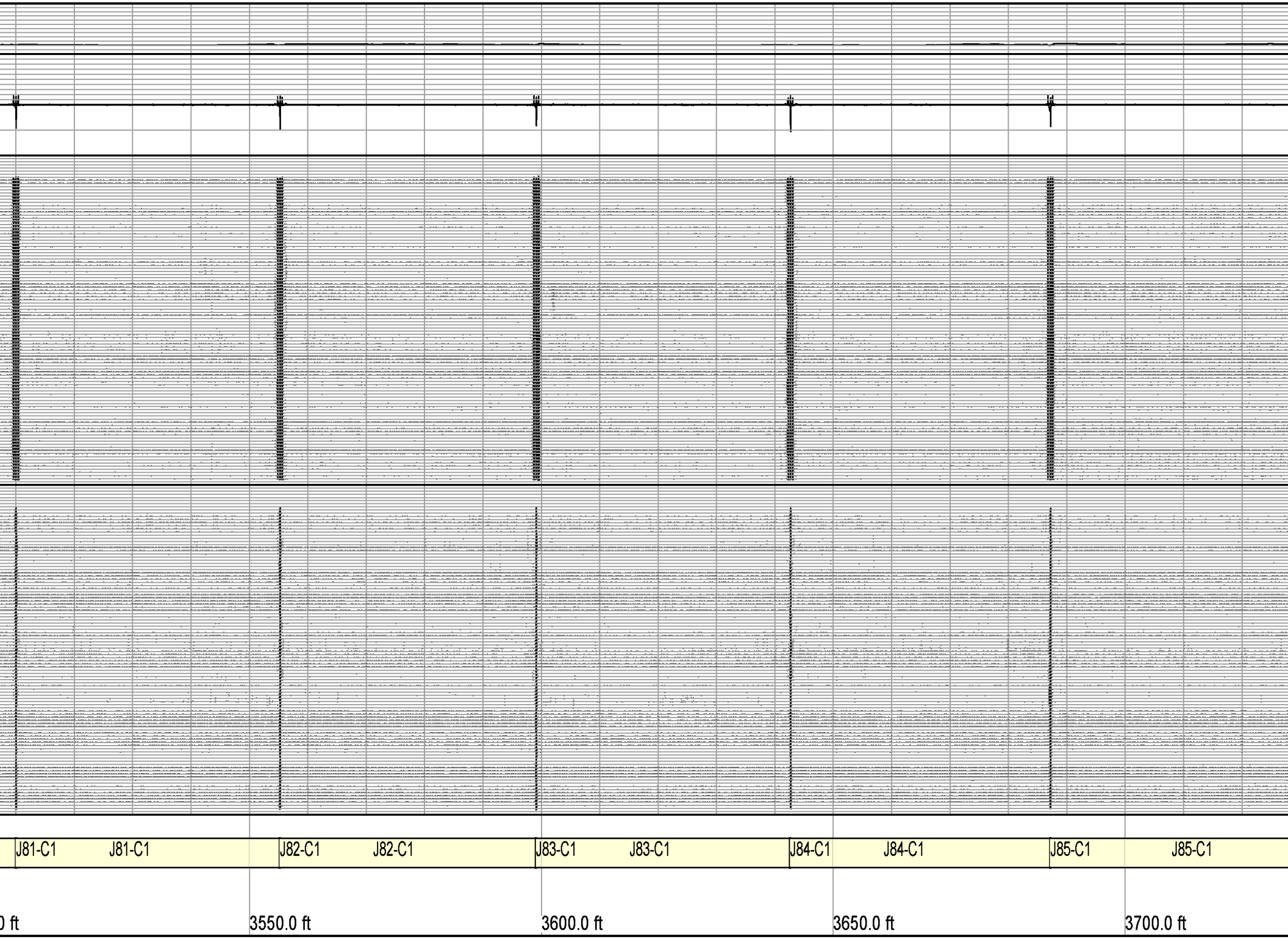

-C1
J55-C1
J56-C1
J56-C1
J57-C1
J57-C1
J58-C1
J58-C1
J59-C1
J59-C1
J60-
0.0 ft
2450.0 ft
2500.0 ft
2550.0 ft
2600.0 ft

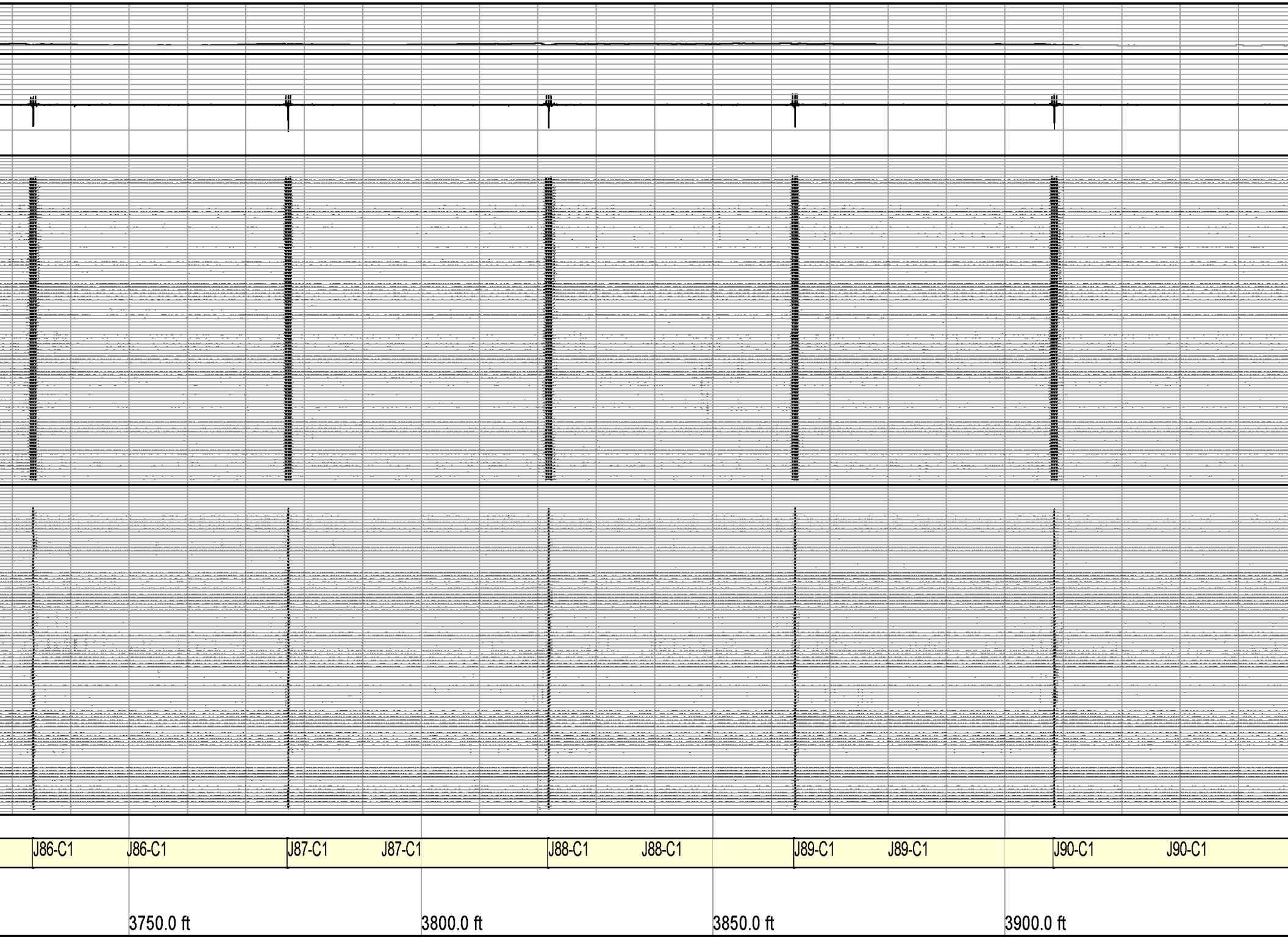

C1
J60-C1
J61-C1
J61-C1
J62-C1
J62-C1
J63-C1
J63-C1
J64-C1
J64-C1
J65-C1
2650.0 ft
2700.0 ft
2750.0 ft
2800.0 ft

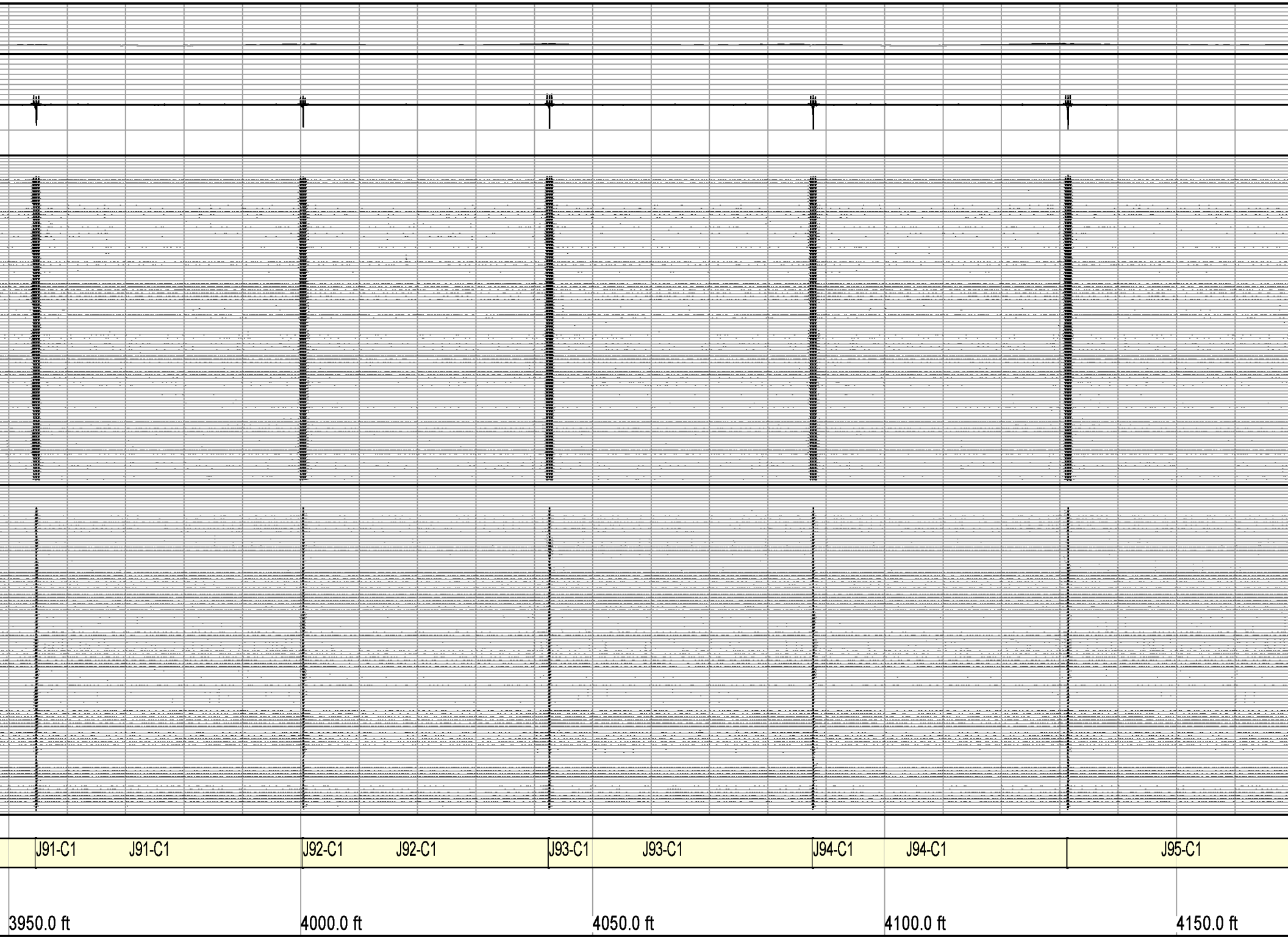

Short Joint
J65-C1
J66-C1
J66-C1
J67-C1
J67-C1
J68-C1
J68-C1
J70-C1
J70-C1
2850.0 ft
2900.0 ft
2950.0 ft
3000.0 ft
3050.0 ft

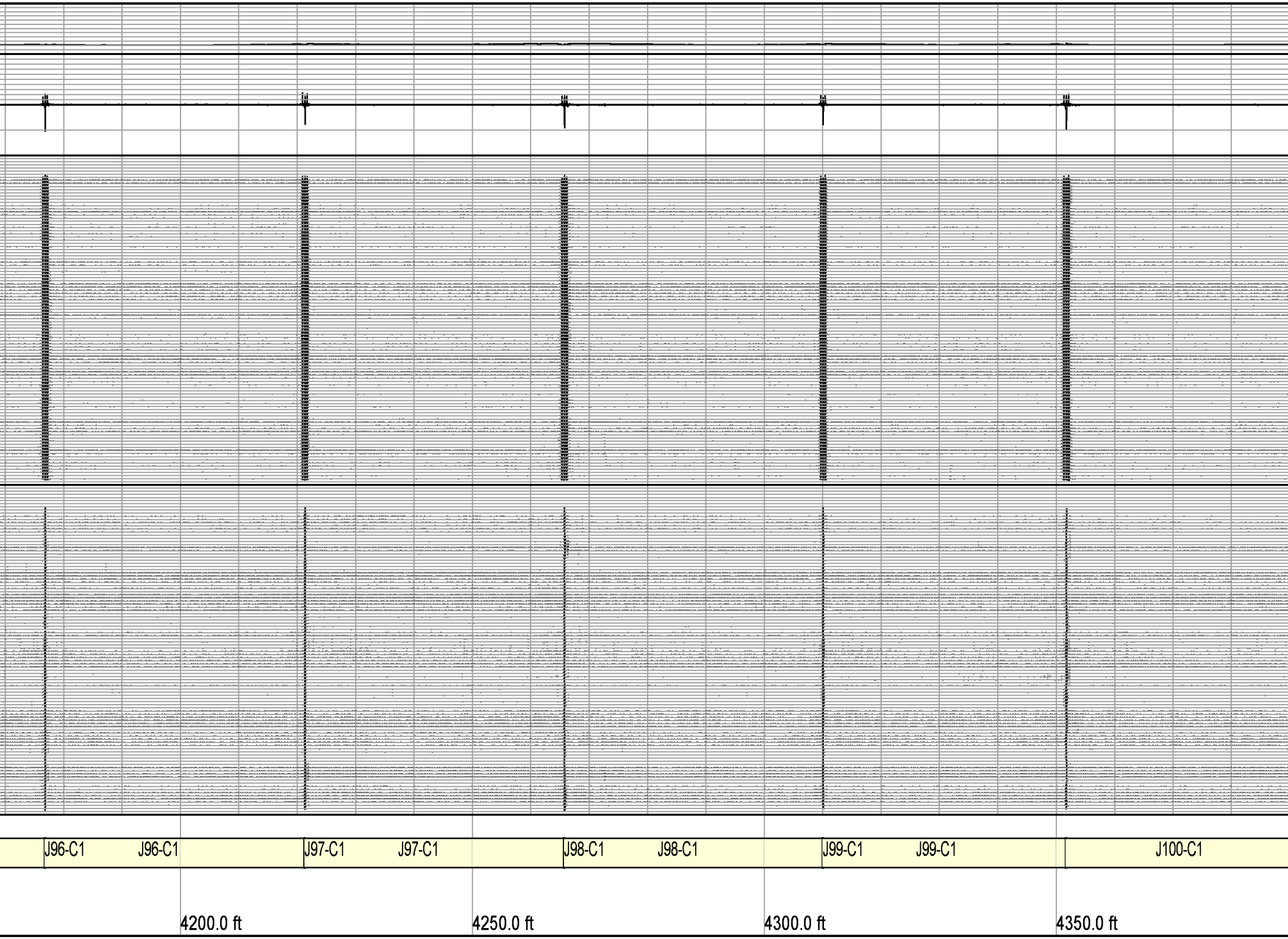

External Hardware (Centralizer) Example
J71-C1
J71-C1
J72-C1
J72-C1
J73-C1
J73-C1
J74-C1
J74-C1
J75-C1
J75-C1
3100.0 ft
3150.0 ft
3200.0 ft
3250.0 ft

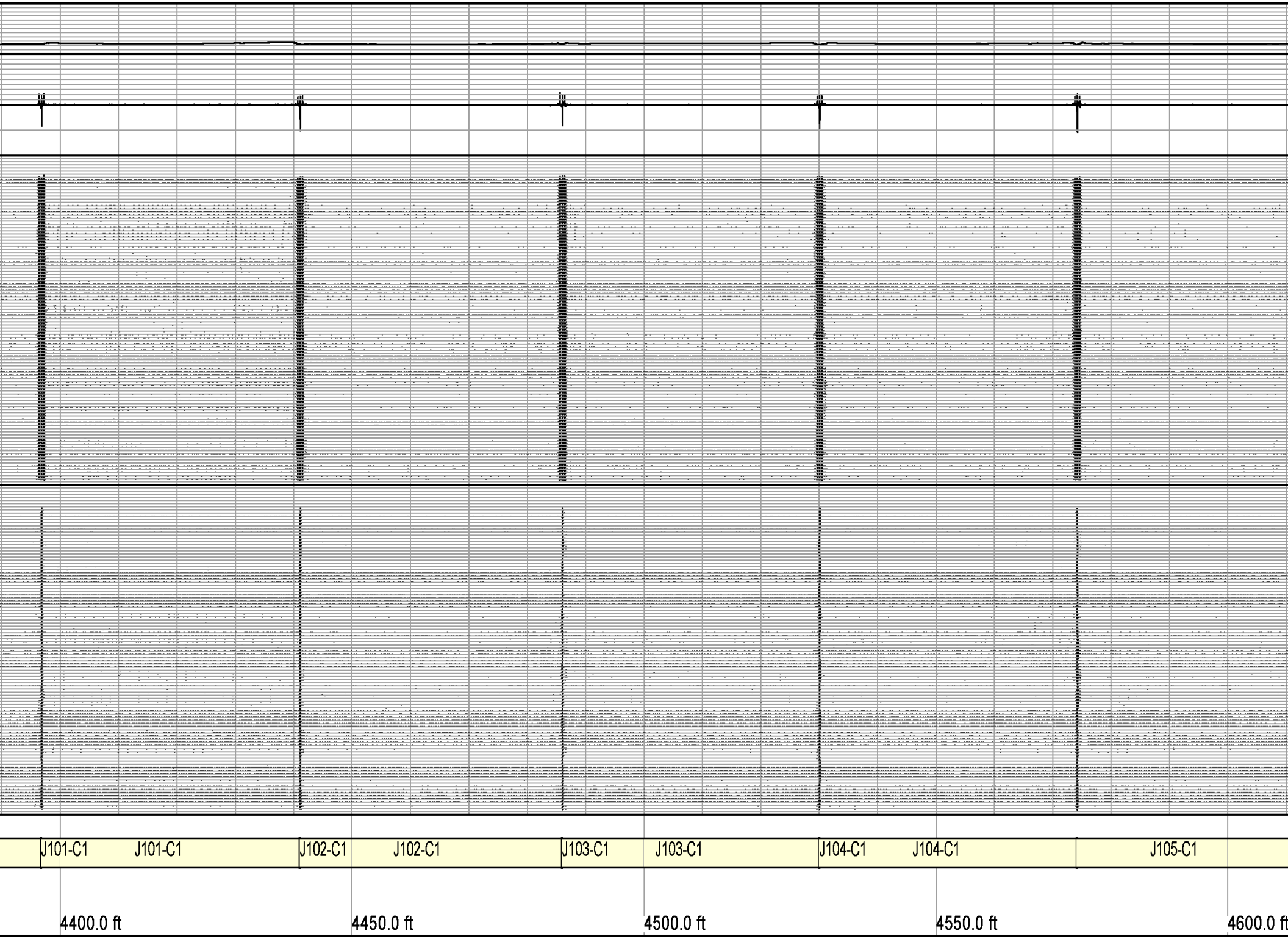

J76-C1
J76-C1
J77-C1
J77-C1
J78-C1
J78-C1
J79-C1
J79-C1
J80-C1
J80-C1
3300.0 ft
3350.0 ft
3400.0 ft
3450.0 ft

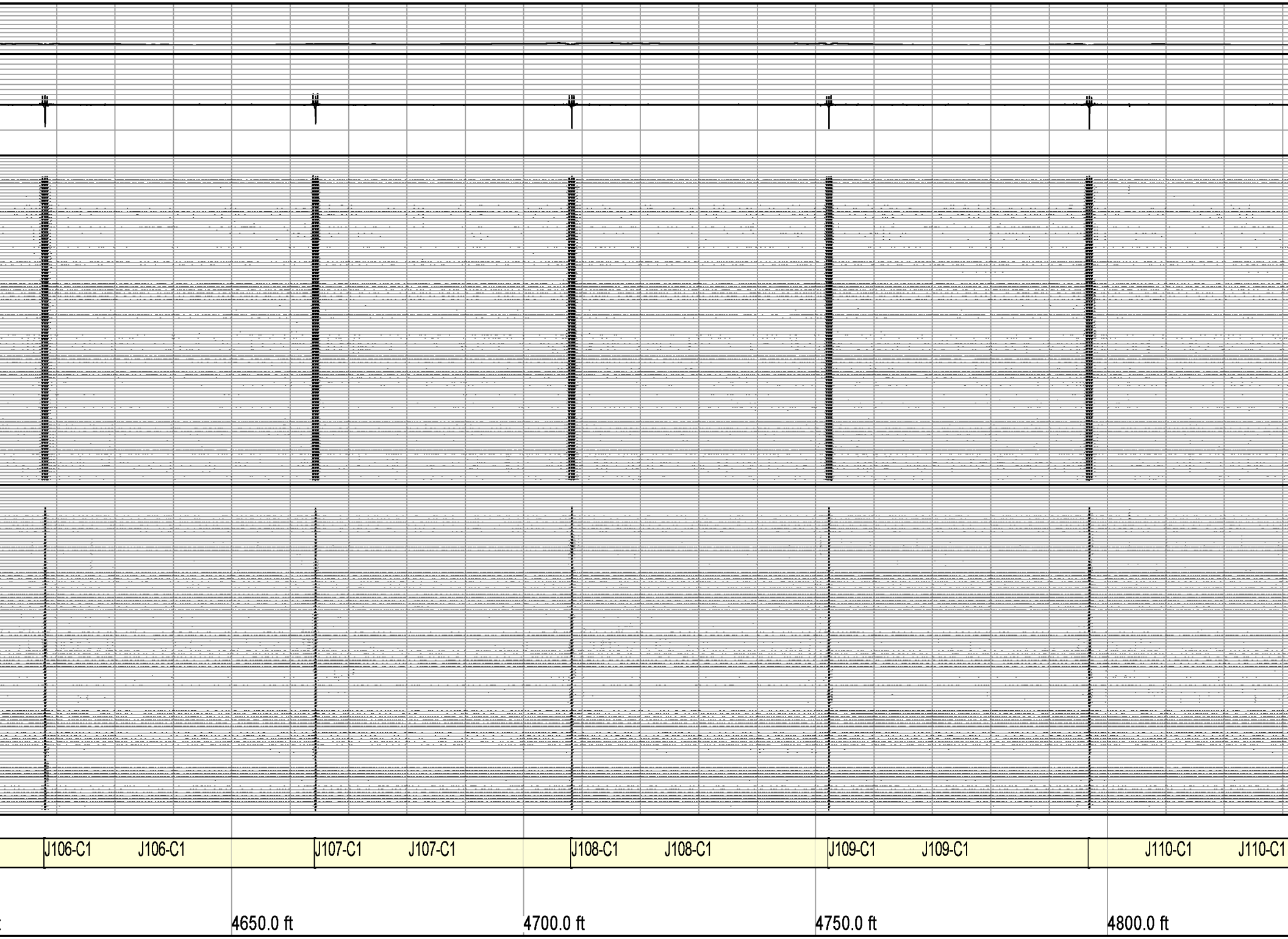

J81-C1
J81-C1
J82-C1
J82-C1
J83-C1
J83-C1
J84-C1
J84-C1
J85-C1
J85-C1
0 ft
3550.0 ft
3600.0 ft
3650.0 ft
3700.0 ft

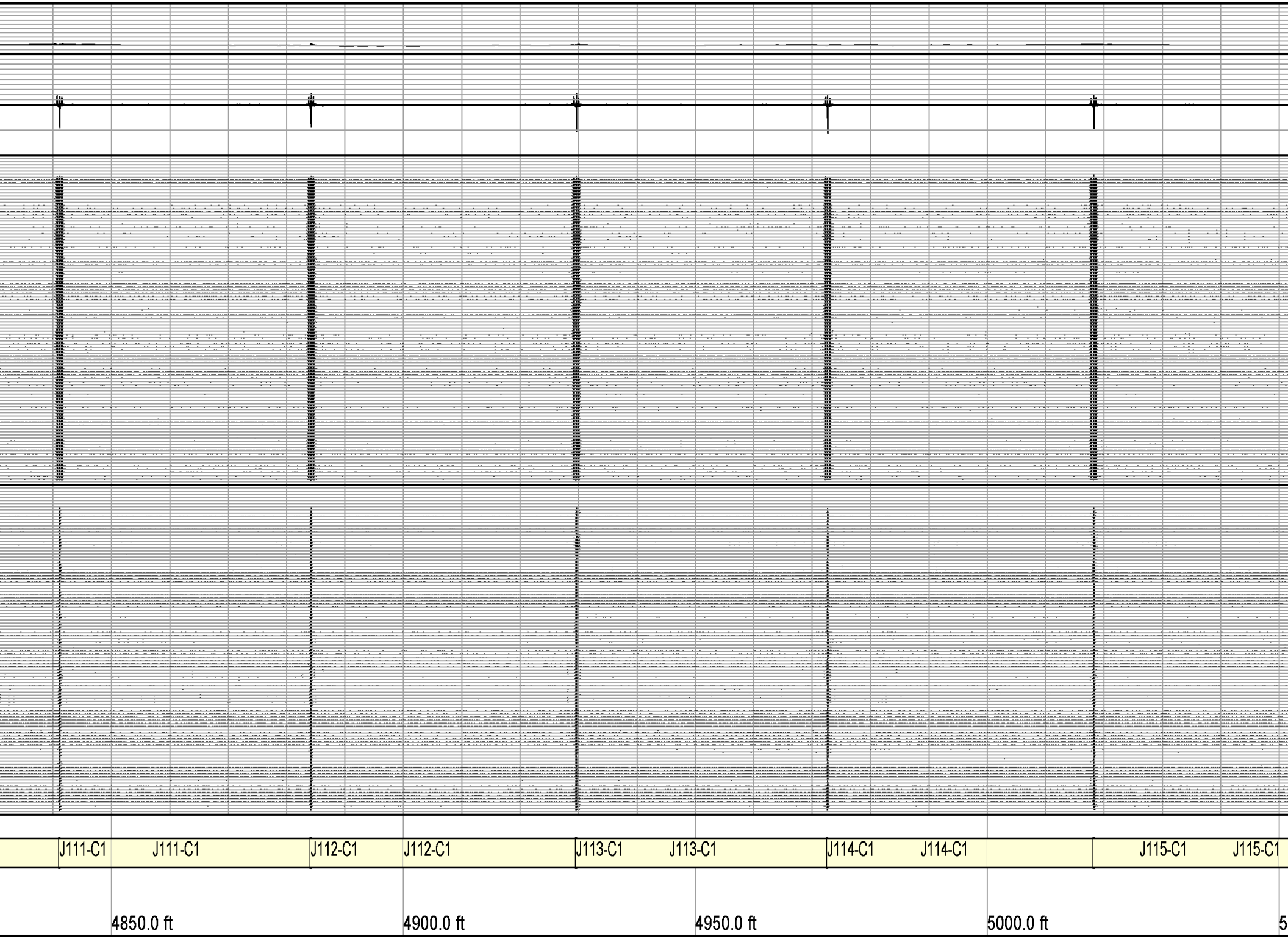

J86-C1
J86-C1
J87-C1
J87-C1
J88-C1
J88-C1
J89-C1
J89-C1
J90-C1
J90-C1
3750.0 ft
3800.0 ft
3850.0 ft
3900.0 ft

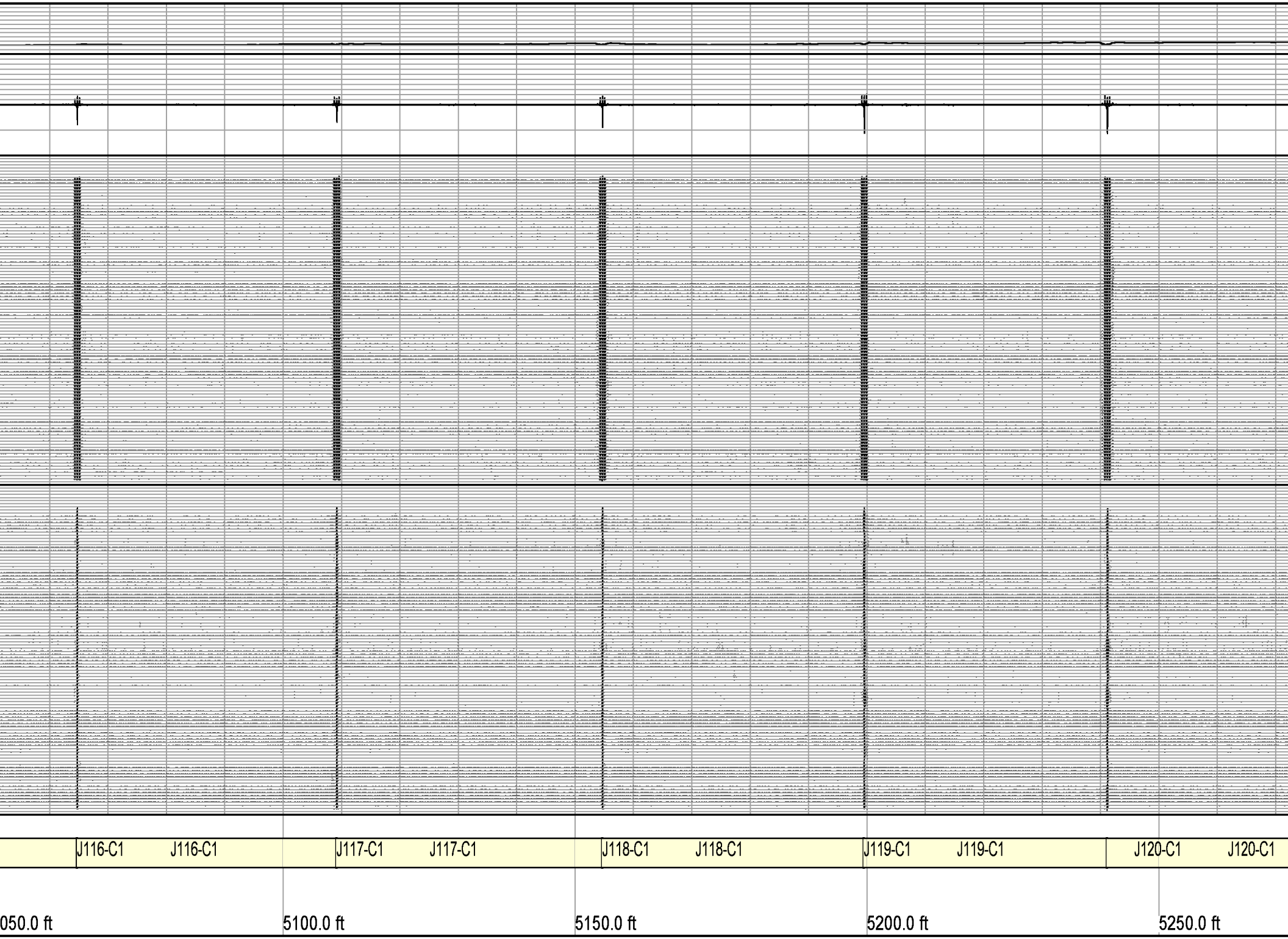

J91-C1
J91-C1
J92-C1
J92-C1
J93-C1
J93-C1
J94-C1
J94-C1
J95-C1
3950.0 ft
4000.0 ft
4050.0 ft
4100.0 ft
4150.0 ft

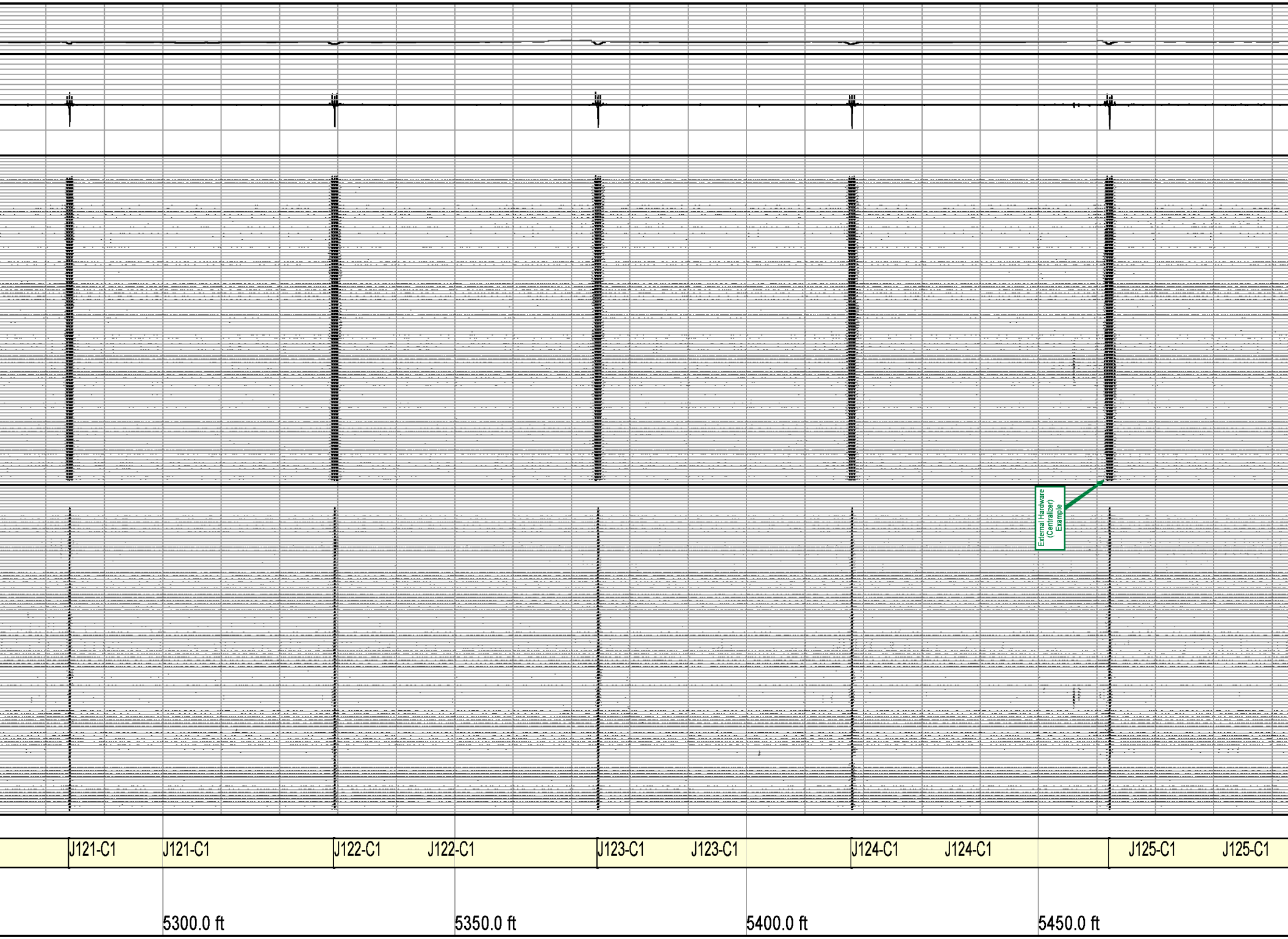

J96-C1
J96-C1
J97-C1
J97-C1
J98-C1
J98-C1
J99-C1
J99-C1
J100-C1
4200.0 ft
4250.0 ft
4300.0 ft
4350.0 ft

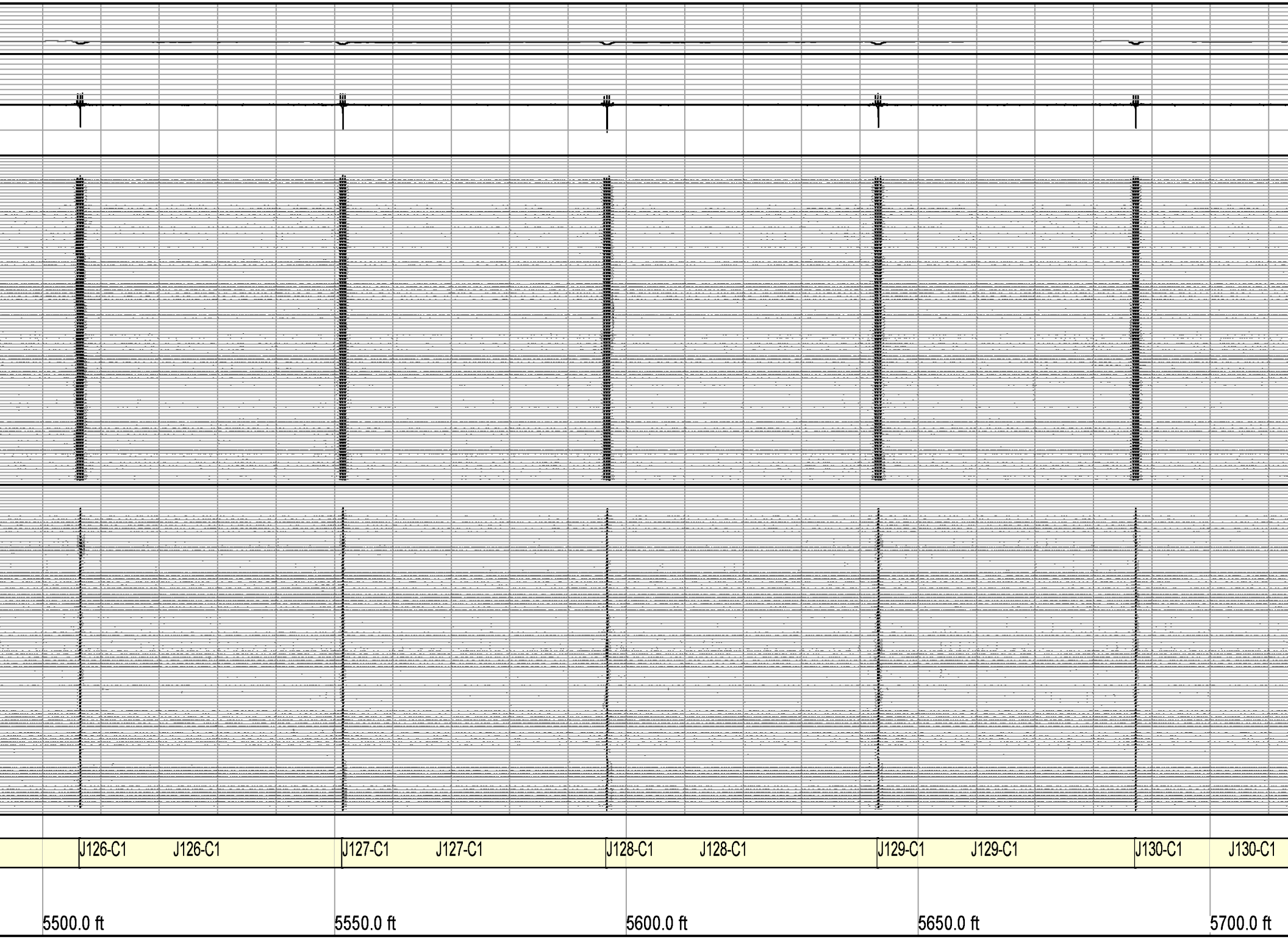

J101-C1
J101-C1
J102-C1
J102-C1
J103-C1
J103-C1
J104-C1
J104-C1
J105-C1
4400.0 ft
4450.0 ft
4500.0 ft
4550.0 ft
4600.0 ft

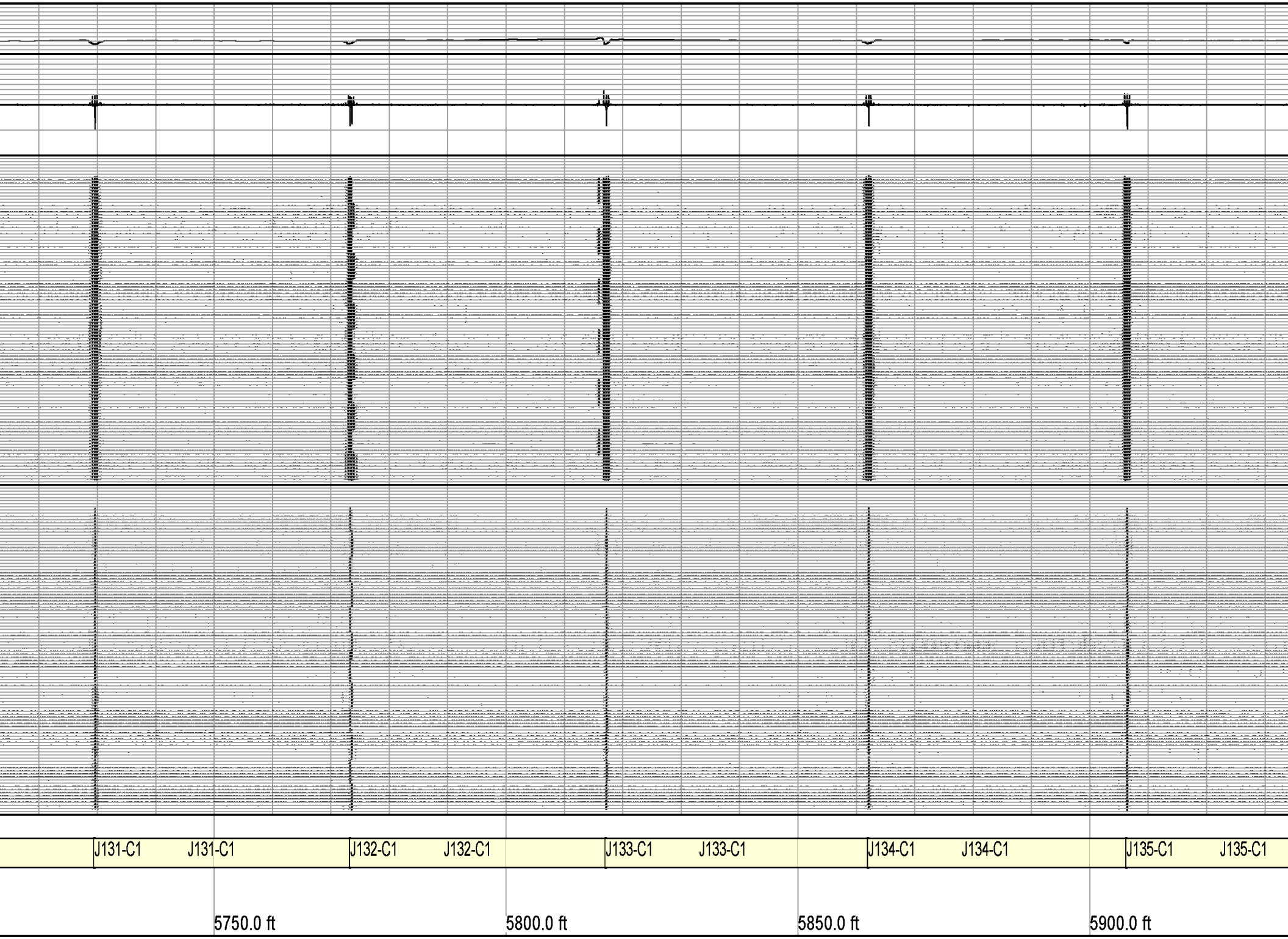

J106-C1
J106-C1
J107-C1
J107-C1
J108-C1
J108-C1
J109-C1
J109-C1
J110-C1
J110-C1
4650.0 ft
4700.0 ft
4750.0 ft
4800.0 ft

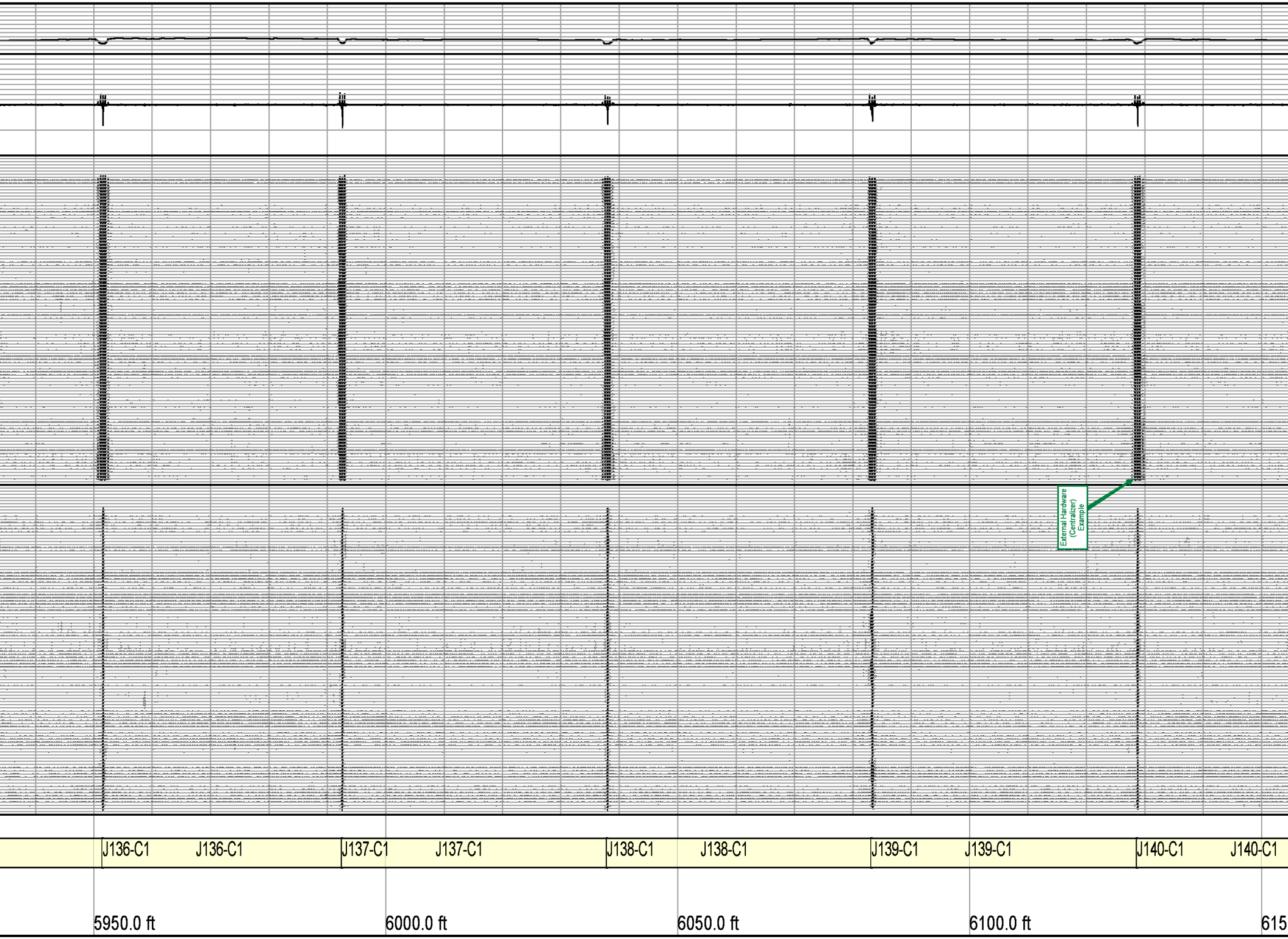

J111-C1
J111-C1
J112-C1
J112-C1
J113-C1
J113-C1
J114-C1
J114-C1
J115-C1
J115-C1
4850.0 ft
4900.0 ft
4950.0 ft
5000.0 ft
5

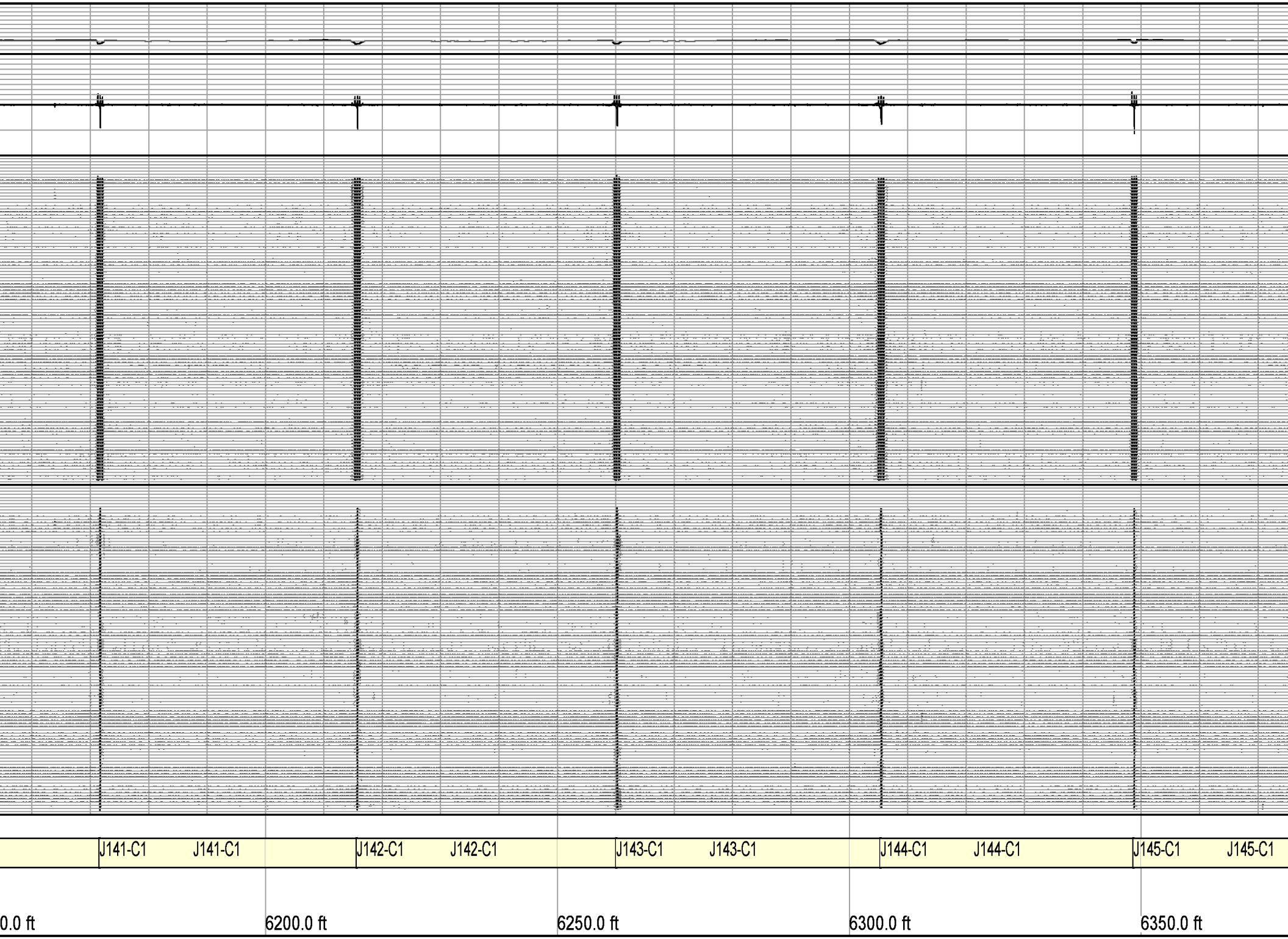

J116-C1
J116-C1
J117-C1
J117-C1
J118-C1
J118-C1
J119-C1
J119-C1
J120-C1
J120-C1
050.0 ft
5100.0 ft
5150.0 ft
5200.0 ft
5250.0 ft

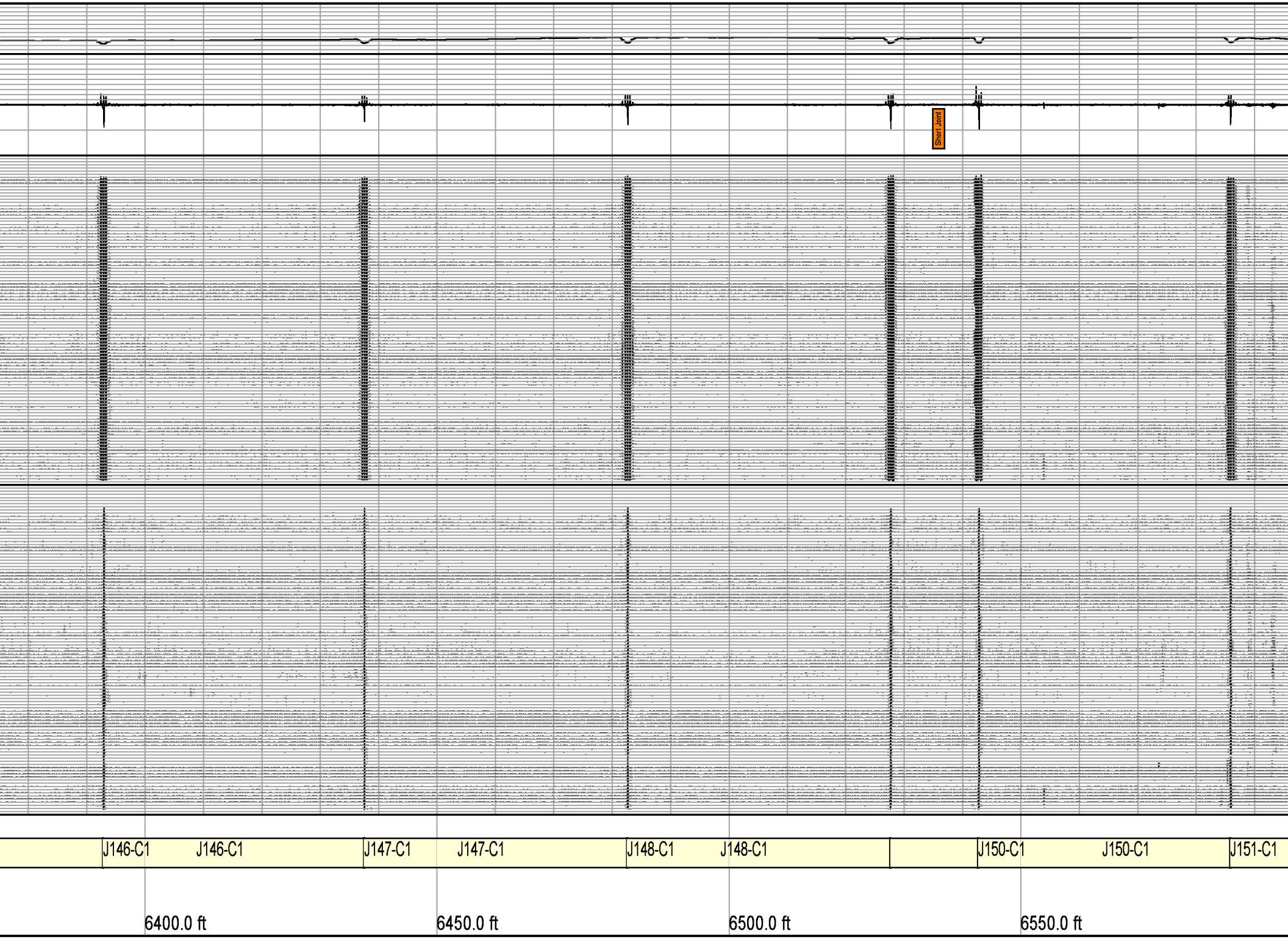

External Hardware (Centralizer) Example
J121-C1
J121-C1
J122-C1
J122-C1
J123-C1
J123-C1
J124-C1
J124-C1
J125-C1
J125-C1
5300.0 ft
5350.0 ft
5400.0 ft
5450.0 ft

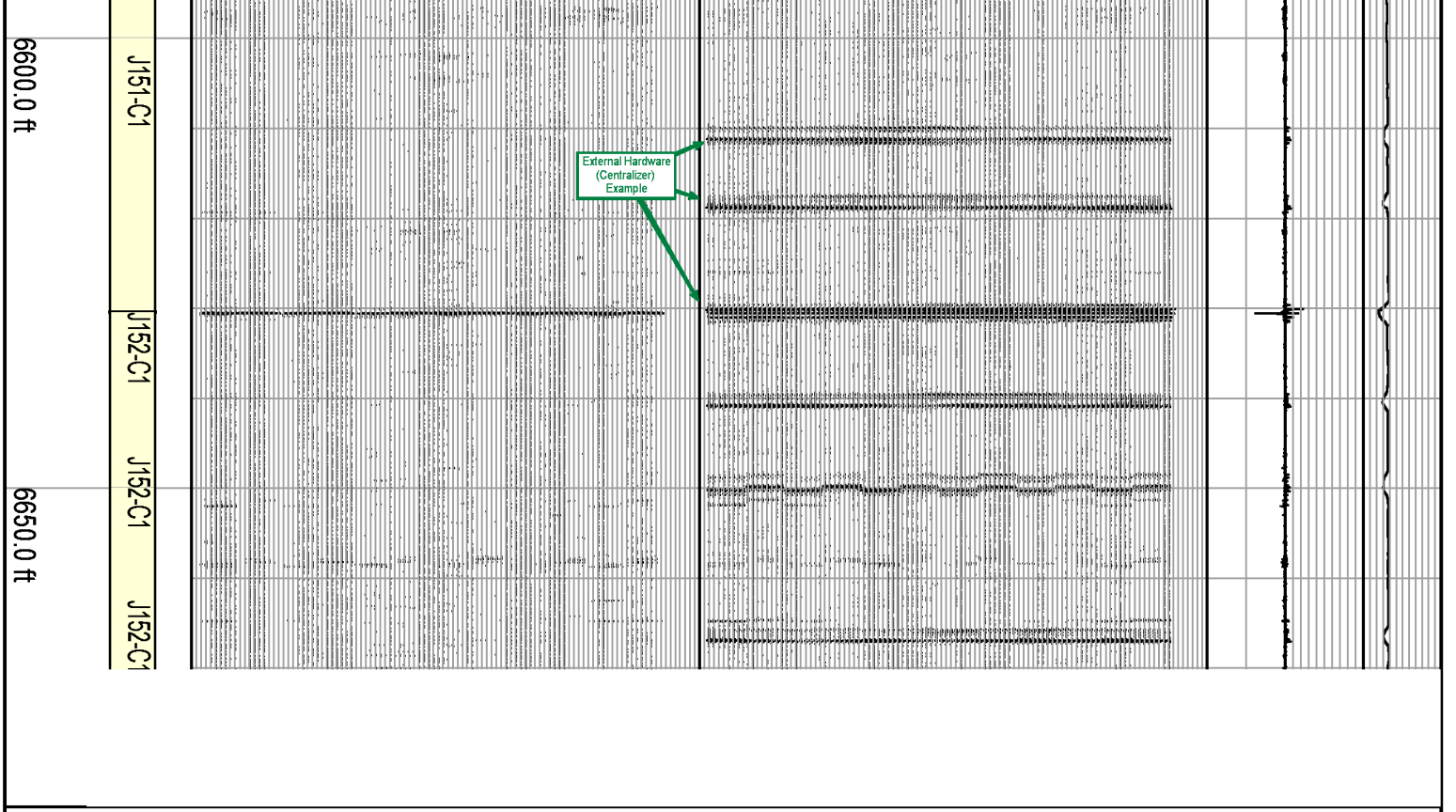

J126-C1
J126-C1
J127-C1
J127-C1
J128-C1
J128-C1
J129-C1
J129-C1
J130-C1
J130-C1
5500.0 ft
5550.0 ft
5600.0 ft
5650.0 ft
5700.0 ft


J131-C1
J131-C1
J132-C1
J132-C1
J133-C1
J133-C1
J134-C1
J134-C1
J135-C1
J135-C1
5750.0 ft
5800.0 ft
5850.0 ft
5900.0 ft


External Hardware
(Centralizer)
Example
J136-C1
J136-C1
J137-C1
J137-C1
J138-C1
J138-C1
J139-C1
J139-C1
J140-C1
J140-C1
5950.0 ft
6000.0 ft
6050.0 ft
6100.0 ft
615


J141-C1
J141-C1
J142-C1
J142-C1
J143-C1
J143-C1
J144-C1
J144-C1
J145-C1
J145-C1
0.0 ft
6200.0 ft
6250.0 ft
6300.0 ft
6350.0 ft


Short Joint
J146-C1
J146-C1
J147-C1
J147-C1
J148-C1
J148-C1
J150-C1
J150-C1
J151-C1
6400.0 ft
6450.0 ft
6500.0 ft
6550.0 ft



Southern California Gas Company Porter 72B

File 20160629_141259_RSP_0_0_0_0_0_0.mvl

Joint Summary

Southern California Gas Company
Aliso Canyon
Porter 72B

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	24.07	17.46	9.625	0.472	47	0			1
JT-2	41.54	44.85	9.625	0.472	47	21	55.35	8644	2
JT-3	86.39	45.68	9.625	0.472	47	0			1
JT-4	132.07	43.69	9.625	0.472	47	0			1
JT-5	175.76	44.95	9.625	0.472	47	0			1
JT-6	220.71	44.05	9.625	0.472	47	0			1
JT-7	264.76	44.08	9.625	0.472	47	0			1
JT-8	308.85	45.54	9.625	0.472	47	0			1
JT-9	354.39	42.83	9.625	0.472	47	0			1
JT-10	397.22	44.82	9.625	0.472	47	0			1
JT-11	442.04	44.33	9.625	0.472	47	0			1
JT-12	486.37	44.12	9.625	0.472	47	0			1
JT-13	530.49	44.07	9.625	0.472	47	0			1
JT-14	574.57	45.79	9.625	0.472	47	0			1
JT-15	620.36	43.71	9.625	0.472	47	0			1
JT-16	664.07	45.48	9.625	0.472	47	0			1
JT-17	709.55	44.25	9.625	0.472	47	0			1
JT-18	753.80	45.38	9.625	0.472	47	0			1
JT-19	799.18	42.42	9.625	0.472	47	0			1
JT-20	841.60	45.11	9.625	0.472	47	0			1
JT-21	886.71	45.40	9.625	0.472	47	0			1
JT-22	932.11	45.89	9.625	0.472	47	0			1
JT-23	978.00	43.10	9.625	0.472	47	0			1
JT-24	1021.10	46.60	9.625	0.472	47	0			1
JT-25	1067.70	44.87	9.625	0.472	47	0			1
JT-26	1112.57	44.58	9.625	0.472	47	0			1
JT-27	1157.15	43.82	9.625	0.472	47	0			1
JT-28	1200.97	46.53	9.625	0.472	47	0			1
JT-29	1247.51	43.63	9.625	0.472	47	0			1
JT-30	1291.14	45.99	9.625	0.472	47	0			1
JT-31	1337.13	45.74	9.625	0.472	47	0			1

JT-31	1337.13	45.74	9.625	0.472	47	0	1
JT-32	1382.86	34.74	9.625	0.472	47	0	1
JT-33	1417.60	45.59	9.625	0.472	47	0	1
JT-34	1463.19	44.17	9.625	0.472	47	0	1
JT-35	1507.37	45.40	9.625	0.472	47	0	1
JT-36	1552.77	44.68	9.625	0.472	47	0	1
JT-37	1597.45	44.64	9.625	0.472	47	0	1
JT-38	1642.09	44.31	9.625	0.472	47	0	1
JT-39	1686.40	45.95	9.625	0.472	47	0	1
JT-40	1732.35	44.92	9.625	0.472	47	0	1
JT-41	1777.27	44.64	9.625	0.472	47	0	1
JT-42	1821.91	44.72	9.625	0.472	47	0	1
JT-43	1866.62	42.76	9.625	0.472	47	0	1
JT-44	1909.38	44.85	9.625	0.472	47	0	1
JT-45	1954.23	44.37	9.625	0.472	47	0	1
JT-46	1998.60	46.25	9.625	0.472	47	0	1
JT-47	2044.85	44.59	9.625	0.472	47	0	1
JT-48	2089.44	44.88	9.625	0.472	47	0	1
JT-49	2134.32	43.48	9.625	0.472	47	0	1
JT-50	2177.80	44.68	9.625	0.472	47	0	1
JT-51	2222.49	42.73	9.625	0.472	47	0	1
JT-52	2265.22	46.31	9.625	0.472	47	0	1
JT-53	2311.53	45.50	9.625	0.472	47	0	1
JT-54	2357.03	43.82	9.625	0.472	47	0	1
JT-55	2400.85	44.81	9.625	0.472	47	0	1
JT-56	2445.66	42.74	9.625	0.472	47	0	1
JT-57	2488.40	44.79	9.625	0.472	47	0	1
JT-58	2533.19	43.97	9.625	0.472	47	0	1
JT-59	2577.16	43.22	9.625	0.472	47	0	1
JT-60	2620.37	41.87	9.625	0.472	47	0	1
JT-61	2662.24	44.83	9.625	0.472	47	0	1
JT-62	2707.07	43.35	9.625	0.472	47	0	1
JT-63	2750.42	42.62	9.625	0.472	47	0	1
JT-64	2793.04	45.30	9.625	0.472	47	0	1
JT-65	2838.34	35.71	9.625	0.472	47	0	1
JT-66	2874.05	46.77	9.625	0.472	47	0	1
JT-67	2920.82	43.87	9.625	0.472	47	0	1
JT-68	2964.69	43.34	9.625	0.472	47	0	1
JT-69	3008.03	15.31	9.625	0.472	47	0	1
JT-70	3023.34	45.04	9.625	0.472	47	0	1
JT-71	3068.37	42.60	9.625	0.472	47	0	1
JT-72	3110.98	44.87	9.625	0.472	47	0	1
JT-73	3155.85	44.03	9.625	0.472	47	0	1
JT-74	3199.89	44.72	9.625	0.472	47	0	1
JT-75	3244.60	44.07	9.625	0.472	47	0	1
JT-76	3288.68	44.70	9.625	0.472	47	0	1
JT-77	3333.38	43.89	9.625	0.472	47	0	1
JT-78	3377.26	44.52	9.625	0.472	47	0	1
JT-79	3421.78	43.89	9.625	0.472	47	0	1
JT-80	3465.67	44.31	9.625	0.472	47	0	1
JT-81	3509.98	45.22	9.625	0.472	47	0	1
JT-82	3555.19	43.87	9.625	0.472	47	0	1
JT-83	3599.06	43.54	9.625	0.472	47	0	1
JT-84	3642.60	44.56	9.625	0.472	47	0	1
JT-85	3687.16	46.39	9.625	0.472	47	0	1
JT-86	3733.55	43.61	9.625	0.472	47	0	1
JT-87	3777.16	44.63	9.625	0.472	47	0	1
JT-88	3821.79	42.15	9.625	0.472	47	0	1
JT-89	3863.94	44.44	9.625	0.472	47	0	1
JT-90	3908.38	46.25	9.625	0.472	47	0	1
JT-91	3954.63	45.71	9.625	0.472	47	0	1
JT-92	4000.34	42.18	9.625	0.472	47	0	1
JT-93	4042.52	45.17	9.625	0.472	47	0	1
JT-94	4087.69	43.65	9.625	0.472	47	0	1
JT-95	4131.34	45.42	9.625	0.472	47	0	1
JT-96	4176.76	44.48	9.625	0.472	47	0	1
JT-97	4221.24	44.47	9.625	0.472	47	0	1
JT-98	4265.71	44.27	9.625	0.472	47	0	1
JT-99	4309.99	41.65	9.625	0.472	47	0	1
JT-100	4351.64	45.09	9.625	0.472	47	0	1
JT-101	4396.73	44.33	9.625	0.472	47	0	1
JT-102	4441.06	44.89	9.625	0.472	47	0	1
JT-103	4485.94	44.07	9.625	0.472	47	0	1
JT-104	4530.01	44.11	9.625	0.472	47	0	1
JT-105	4574.12	43.80	9.625	0.472	47	0	1
JT-106	4617.93	46.35	9.625	0.472	47	0	1
JT-107	4664.28	43.85	9.625	0.472	47	0	1
JT-108	4708.13	44.08	9.625	0.472	47	0	1
JT-109	4752.21	44.57	9.625	0.472	47	0	1
JT-110	4796.79	44.26	9.625	0.472	47	0	1
JT-111	4841.05	43.07	9.625	0.472	47	0	1
JT-112	4884.11	45.43	9.625	0.472	47	0	1

JT-113	4929.55	43.03	9.625	0.472	47	0	1
JT-114	4972.58	45.61	9.625	0.472	47	0	1
JT-115	5018.19	46.52	9.625	0.472	47	0	1
JT-116	5064.71	44.39	9.625	0.472	47	0	1
JT-117	5109.10	45.53	9.625	0.472	47	0	1
JT-118	5154.64	44.83	9.625	0.472	47	0	1
JT-119	5199.46	41.64	9.625	0.472	47	0	1
JT-120	5241.10	42.85	9.625	0.472	47	0	1
JT-121	5283.95	45.42	9.625	0.472	47	0	1
JT-122	5329.36	45.10	9.625	0.472	47	0	1
JT-123	5374.46	43.49	9.625	0.472	47	0	1
JT-124	5417.95	44.12	9.625	0.472	47	0	1
JT-125	5462.08	44.29	9.625	0.472	47	0	1
JT-126	5506.37	44.99	9.625	0.472	47	0	1
JT-127	5551.36	45.20	9.625	0.472	47	0	1
JT-128	5596.56	46.49	9.625	0.472	47	0	1
JT-129	5643.05	44.13	9.625	0.472	47	0	1
JT-130	5687.18	42.32	9.625	0.472	47	0	1
JT-131	5729.49	43.81	9.625	0.472	47	0	1
JT-132	5773.30	43.77	9.625	0.472	47	0	1
JT-133	5817.08	44.96	9.625	0.472	47	0	1
JT-134	5862.04	44.24	9.625	0.472	47	0	1
JT-135	5906.28	45.21	9.625	0.472	47	0	1
JT-136	5951.49	40.99	9.625	0.472	47	0	1
JT-137	5992.49	45.43	9.625	0.472	47	0	1
JT-138	6037.92	45.27	9.625	0.472	47	0	1
JT-139	6083.19	45.48	9.625	0.472	47	0	1
JT-140	6128.67	42.92	9.625	0.472	47	0	1
JT-141	6171.59	44.07	9.625	0.472	47	0	1
JT-142	6215.67	44.40	9.625	0.472	47	0	1
JT-143	6260.07	45.26	9.625	0.472	47	0	1
JT-144	6305.33	43.38	9.625	0.472	47	0	1
JT-145	6348.71	44.07	9.625	0.472	47	0	1
JT-146	6392.78	44.72	9.625	0.472	47	0	1
JT-147	6437.51	45.05	9.625	0.472	47	0	1
JT-148	6482.55	45.09	9.625	0.472	47	0	1
JT-149	6527.64	15.05	9.625	0.472	47	0	1
JT-150	6542.69	43.17	9.625	0.472	47	0	1
JT-151	6585.86	44.60	9.625	0.472	47	0	1
JT-152	6630.46	37.54	9.625	0.472	47	0	1