



Casing Inspection

Company	Strategic Oil & Gas
Well	STRATEGIC ET AL CAMERON M-74
Field	CAMERON
Province/State	NORTHWEST TERRITORIES
UWI/API	300/M74-60-10N-117W15/02
License#	0002063
Log Recorded	MIT-MTT
Purpose	Determine casing damage
Date Logged	February 22, 2015
Elevation: (m) or (ft)	m
Ground Level	777.9
Kelly Bushing	782.1
Depth Driller	1473.0 mKB
Logging Depth	1387.8mKB
Logging Interval	0 - 1386.0 mKB
Fluide Type	Oil
Corrected to	FMC WR Setting Record - February 20, 2015
Surface Location	M74-60-10N-117W15
Existing Perforations	N/A
Squeezed Perforations	N/A
Contact	Ken kikiforuk
Log Analyst	Teresa Cheng

Casing	Size(mm)	Wgt(kg/m)	From (m)	To (m)	Grade	Joint Type
Surface	219.1	35.7	Surface	378.0		
Production	139.7	20.83	Surface	1473.0		

Warning

Any interpretation of logs or survey, either through optical or electronic processing means or otherwise, or any recommendation or description of any reservoir based on such interpretation of other data, are opinions based upon measurements, assumptions and empirical relationships, which inferences and assumptions are not incapable of error. We cannot and do not guarantee the accuracy, correctness or completeness of such interpretations, recommendations or descriptions and Company agrees that we shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by Company resulting directly or indirectly therefrom. Under no circumstances should any such interpretation, recommendation or description be relied upon as the basis for any procedure conducted in or on a well which involves any risk to the safety of personnel, equipment or venture. Company shall always have full responsibility for such decisions and for all decisions concerning other procedures relating to drilling, completion or production operations.

Interpretation Notes

Casing was inspected utilizing Sondex MIT-MTT tool Internal inspection was carried out with the 40 Arm Caliper and magnetic thickness was utilized for external casing inspection.
Processing is done in CardLine software of CardGio Inc.

Casing appears to have damages at Joint 9 and Joint 13

Processed By:
Teresa Cheng
Log Analyst
403-781-3253

Curve Description

Curve	Description	Units
MIT Dev	MIT Deviation	deg
FING	All Fingers	mm
MIN	Minimum Radius	mm
AVG	Average Radius	mm
MAX	Maximum Radius	mm
NOMID	Nominal ID of the casing	mm
NOMOM	Nominal OD of the casing	mm
MTT	All MTT Sensors	RAD
Joint Number	Joint Number	#
Max Penetration	The point in the joint with worth metal loss	%
Joint Grading	Joint Grading	Grade
Ellipse	The difference between the radii and the fitted Ellipse	%
Nominal	The difference between the radii and the nominal casing size	%
Corrosion Image	The first color show a reduces ID, all color is worth 7 corrosion	
CL1-EL	Class 1 - 0 to 19.99% metal loss	1 
CL2-EL	Class 2 - 20 to 49.99% metal loss	2 
CL3-EL	Class 3 - 40 to 69.99% metal loss	3 
CL4-EL	Class 4 - 60 to 79.99% metal loss	4 
CL5-EL	Class 5 - 80 to 100% metal loss	5 

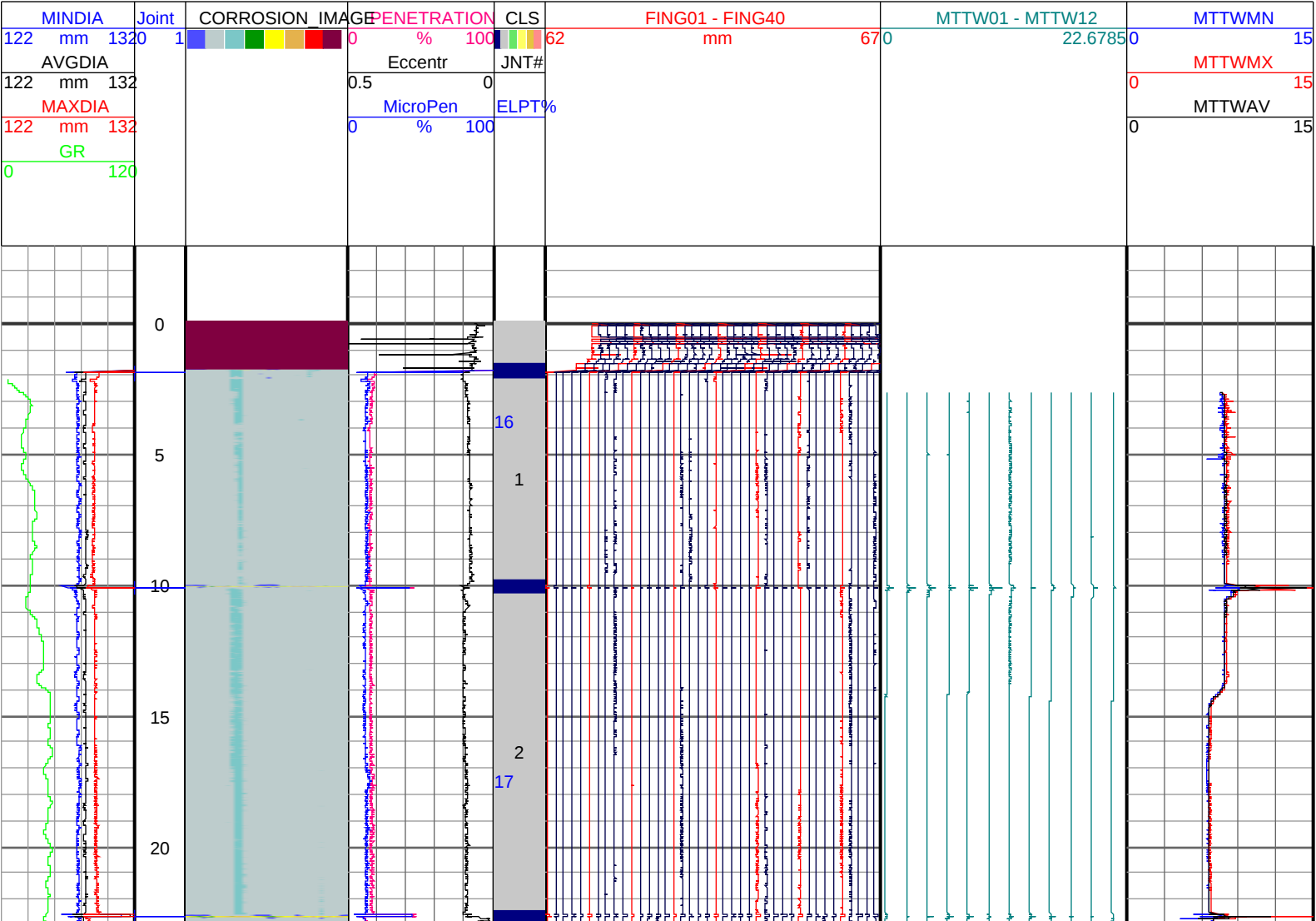
Joint Summary

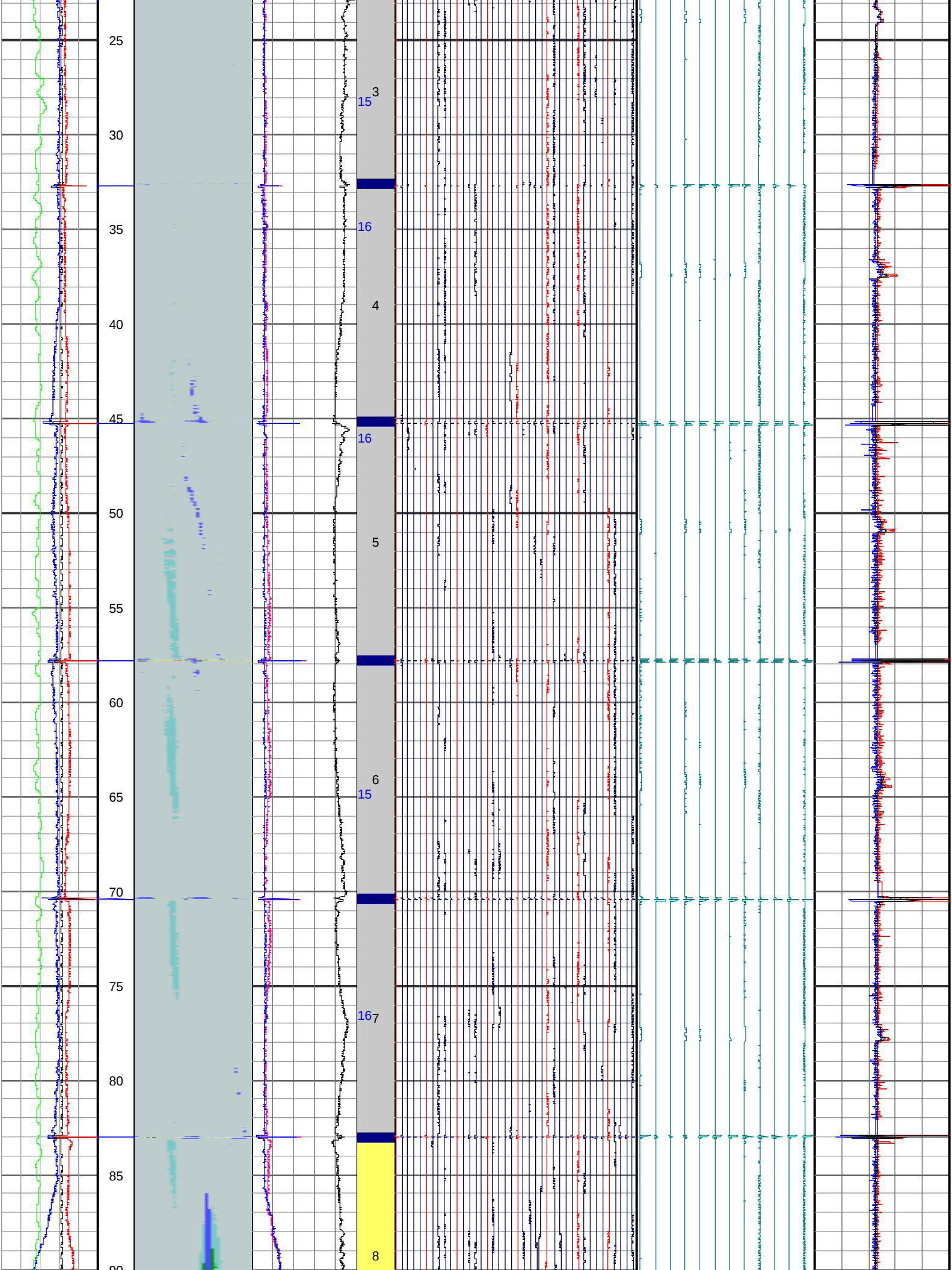
Joint	From	To	Length	Combined	Combined	Pit Position	OD / ID	Minimum Diameter	Maximum Diameter Position
#	(m)	(m)	(m)	Class	%	(m)	-	(mm)	(m)
1	1.9	10.08	8.18	1	16	2.26	ID	127	2.2
2	10.09	22.64	12.55	1	17	17.65	ID	127	13.46
3	22.64	32.67	10.02	1	15	29.34	ID	128	31.52
4	32.67	45.22	12.54	1	16	42.66	ID	127	44.92
5	45.22	57.81	12.59	1	16	54.46	ID	127	50.59
6	57.82	70.39	12.56	1	15	62.36	ID	127	58.43
7	70.4	82.99	12.59	1	16	72.31	ID	127	82.7
8	83	95.53	12.53	3	45	95.05	ID	123	94.99
9	95.54	108.18	12.64	5	100	95.9	ID	124	95.81
10	108.19	120.77	12.58	1	15	120.12	ID	127	120.5
11	120.78	133.35	12.57	1	16	132.27	ID	127	132.04
12	133.36	145.93	12.57	1	16	145.24	ID	127	145.6
13	145.94	158.52	12.57	2	35	155.29	ID	127	146.87
14	158.53	171.11	12.58	1	15	169.32	ID	128	170.75
15	171.12	183.7	12.58	1	14	183.34	ID	127	171.42
16	183.71	196.24	12.53	1	16	193.58	ID	127	195.78
17	196.25	208.85	12.59	1	16	203.86	ID	127	207.05
18	208.86	221.44	12.58	1	14	212.42	ID	127	220.98
19	221.45	233.99	12.53	1	15	233.69	ID	127	222.79
20	233.99	246.56	12.57	1	15	234.63	ID	127	246.29
21	246.57	259.13	12.55	1	14	253.13	ID	127	258.66
22	259.14	271.7	12.55	1	14	259.46	ID	127	271.37
23	271.7	284.25	12.55	1	14	281.79	ID	127	283.93
24	284.26	296.78	12.52	1	14	288.81	ID	127	296.5
25	296.79	309.27	12.48	1	14	297.09	ID	127	297.16
26	309.28	321.89	12.61	1	15	309.7	ID	127	309.82
27	321.9	334.48	12.58	1	13	327.52	ID	127	322.21
28	334.49	346.98	12.48	1	13	346.38	ID	127	346.6
29	346.98	359.58	12.59	1	13	347.43	ID	128	359.3
30	359.59	372.16	12.57	1	13	360.86	ID	127	360.09
31	372.17	384.73	12.56	1	12	375.87	ID	127	372.57
32	384.74	397.32	12.58	1	12	390.07	ID	127	397.03
33	397.33	410.07	12.74	1	12	405.88	ID	127	401.97
34	410.08	422.63	12.55	1	12	418.6	ID	127	420.3
35	422.63	435.24	12.61	1	12	434.25	ID	127	430.96
36	435.26	447.82	12.57	1	12	435.63	ID	127	435.57
37	447.83	460.43	12.6	1	12	448.2	ID	127	460.13
38	460.44	473.02	12.58	1	17	469.73	ID	127	467.19
39	473.04	485.6	12.56	1	20	479.45	ID	127	485.3
40	485.61	498.17	12.56	2	21	489.07	ID	127	497.71
41	498.18	510.7	12.52	1	11	509.45	ID	127	510.18
42	510.71	523.27	12.55	1	11	511.08	ID	127	522.84
43	523.28	535.8	12.52	1	11	525.8	ID	127	523.64

43	523.28	535.8	12.52	1	11	525.9	ID	127	523.64
44	535.81	548.39	12.58	1	11	542.41	ID	127	536.2
45	548.4	560.92	12.52	1	11	550.98	ID	127	554.53
46	560.93	573.52	12.59	1	14	572.07	ID	127	561.32
47	573.53	586.09	12.55	1	10	573.81	ID	127	573.86
48	586.1	598.65	12.55	1	11	596.94	ID	127	596.98
49	598.66	611.16	12.51	1	11	598.98	ID	127	610.73
50	611.17	623.71	12.54	1	12	612.09	ID	127	612.04
51	623.72	636.3	12.58	1	10	624.02	ID	127	624.14
52	636.32	648.89	12.57	1	12	647.75	ID	127	647.78
53	648.9	661.45	12.55	1	10	652.21	ID	127	661.02
54	661.46	674	12.53	1	10	673.65	ID	127	673.67
55	674.01	686.63	12.61	1	9	680.3	ID	127	677.21
56	686.64	699.17	12.53	1	11	694.47	ID	127	698.8
57	699.18	711.76	12.58	1	11	709.01	ID	127	711.15
58	711.77	724.36	12.59	1	10	712.2	ID	127	712.04
59	724.37	736.99	12.63	1	10	733.56	ID	127	728.43
60	737.01	749.57	12.56	1	10	740.17	OD	127	737.32
61	749.58	762.14	12.55	1	10	760.67	ID	127	761.78
62	762.14	774.71	12.57	1	9	762.44	ID	127	765.68
63	774.72	787.31	12.59	1	9	786.43	ID	127	787.04
64	787.32	799.89	12.56	1	10	791.56	ID	127	791.7
65	799.89	812.49	12.59	1	9	809.73	ID	127	811.92
66	812.5	825.14	12.64	1	13	822.01	ID	127	812.86
67	825.15	837.62	12.47	1	11	825.42	ID	127	827.44
68	837.63	850.32	12.69	1	9	849.07	ID	127	849.95
69	850.33	862.81	12.47	1	11	854.49	OD	127	850.71
70	862.82	875.38	12.55	1	10	863.95	ID	127	875.07
71	875.39	887.96	12.58	1	11	883.86	OD	127	883.21
72	887.97	900.43	12.45	1	8	888.31	ID	127	900.16
73	900.44	912.95	12.51	1	10	907.77	OD	127	912.53
74	912.96	925.49	12.53	1	9	913.63	ID	127	916.54
75	925.51	938.08	12.58	1	9	925.86	ID	127	925.82
76	938.09	950.54	12.44	1	10	944.22	ID	127	938.51
77	950.55	963.05	12.51	1	12	951.37	OD	127	962.73
78	963.07	975.63	12.56	1	9	965.36	OD	127	975.25
79	975.64	988.21	12.57	1	10	979.45	OD	127	976.02
80	988.22	1000.71	12.49	1	11	991.35	OD	127	1000.43
81	1000.72	1013.23	12.51	1	9	1007.43	OD	127	1005.93
82	1013.24	1025.88	12.63	1	10	1024.9	OD	127	1013.62
83	1025.89	1038.41	12.52	1	10	1026.94	OD	127	1026.36
84	1038.42	1050.96	12.54	1	10	1046.3	OD	127	1050.66
85	1050.97	1063.56	12.59	1	19	1055.77	OD	127	1051.38
86	1063.57	1076.14	12.57	1	11	1069.66	OD	127	1075.69
87	1076.15	1088.77	12.61	1	10	1084.85	OD	127	1076.57
88	1088.78	1101.36	12.59	1	11	1094.1	OD	127	1089.23
89	1101.37	1114.03	12.66	1	11	1104.47	OD	127	1113.74
90	1114.04	1126.62	12.58	1	11	1123.2	OD	127	1114.47
91	1126.63	1139.43	12.8	1	16	1131.23	ID	127	1127
92	1139.44	1151.99	12.55	1	12	1150.96	OD	126	1139.83

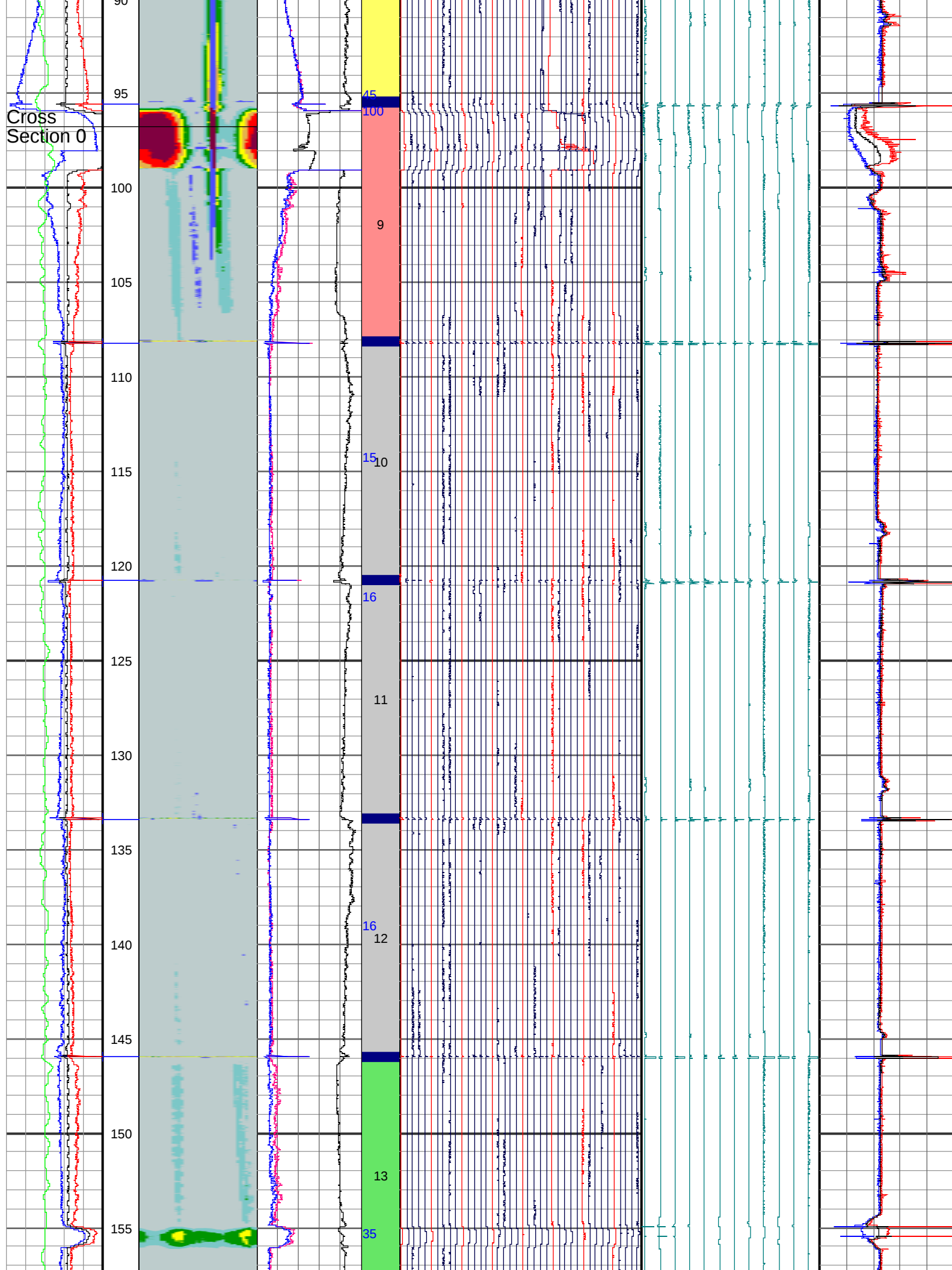
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94	1164.53	1177.14	12.61	1	9	1165.5	OD	127	1176.8
95	1177.15	1189.72	12.57	1	9	1181.92	OD	127	1177.41
96	1189.73	1202.25	12.52	1	11	1193.52	OD	127	1200.17
97	1202.26	1214.9	12.63	1	11	1213.95	OD	127	1207.87
98	1214.91	1227.41	12.5	1	16	1219.41	OD	127	1227.13
99	1227.41	1240	12.59	1	11	1237.35	OD	126	1239.72
100	1240.01	1252.49	12.48	1	13	1245.28	OD	126	1252.21
101	1252.5	1265.05	12.55	1	12	1263.34	OD	126	1264.71
102	1265.06	1277.62	12.55	1	16	1273.33	OD	127	1277.3
103	1277.63	1290.14	12.51	1	17	1280.72	OD	126	1289.7
104	1290.15	1302.58	12.43	1	13	1297.08	OD	127	1302.3
105	1302.59	1315.11	12.52	1	15	1309.88	OD	127	1305.28
106	1315.13	1327.68	12.55	1	17	1324.3	OD	126	1315.39
107	1327.69	1340.18	12.49	1	12	1337.52	OD	126	1328.25
108	1340.19	1343.56	3.37	1	17	1341.57	OD	125	1340.74
109	1343.57	1356.16	12.59	1	13	1348.16	OD	127	1352.2
110	1356.17	1368.69	12.51	1	15	1362.7	OD	126	1368.42
111	1368.7	1381.36	12.66	1	16	1372.47	OD	127	1380.99

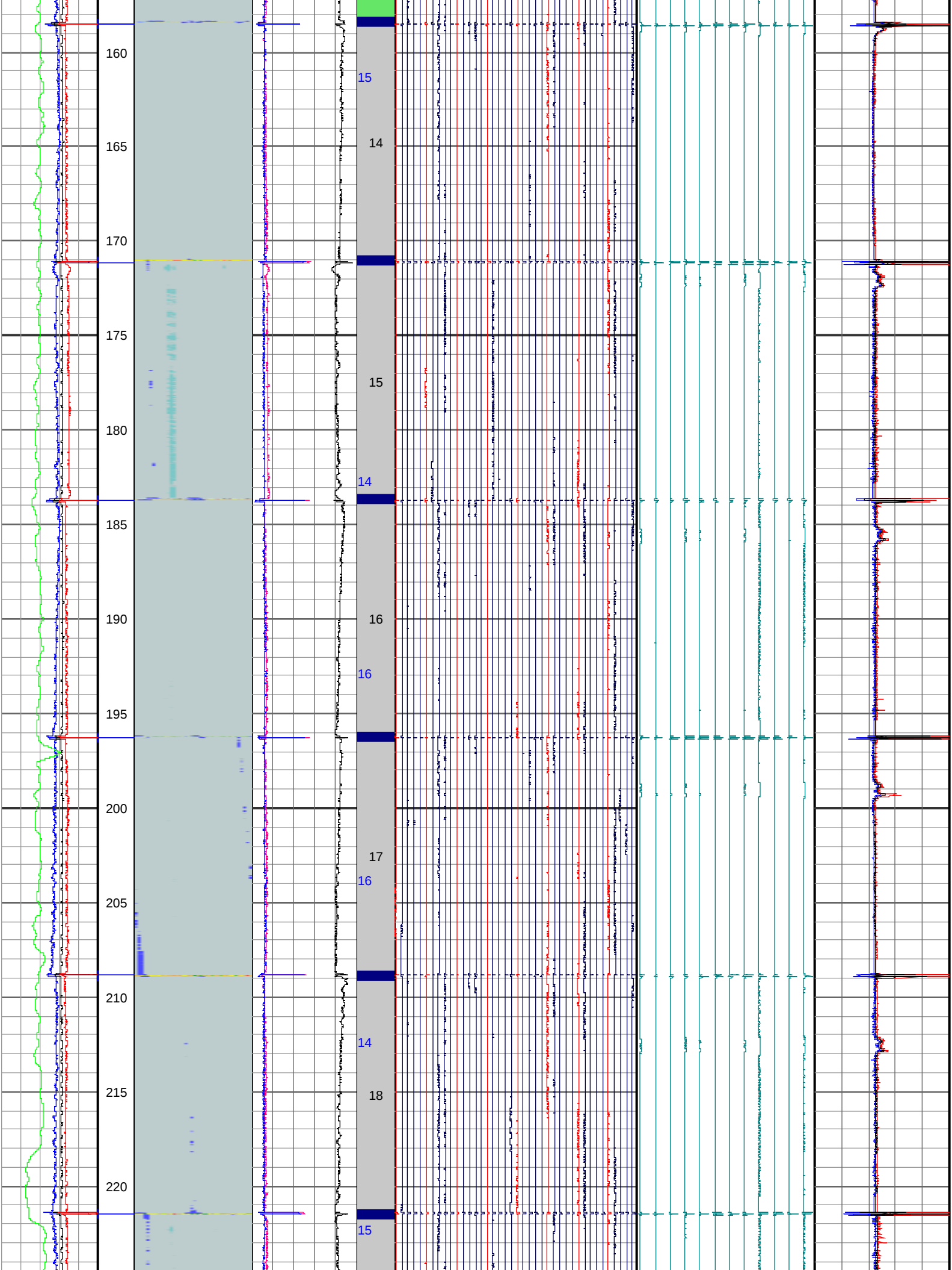
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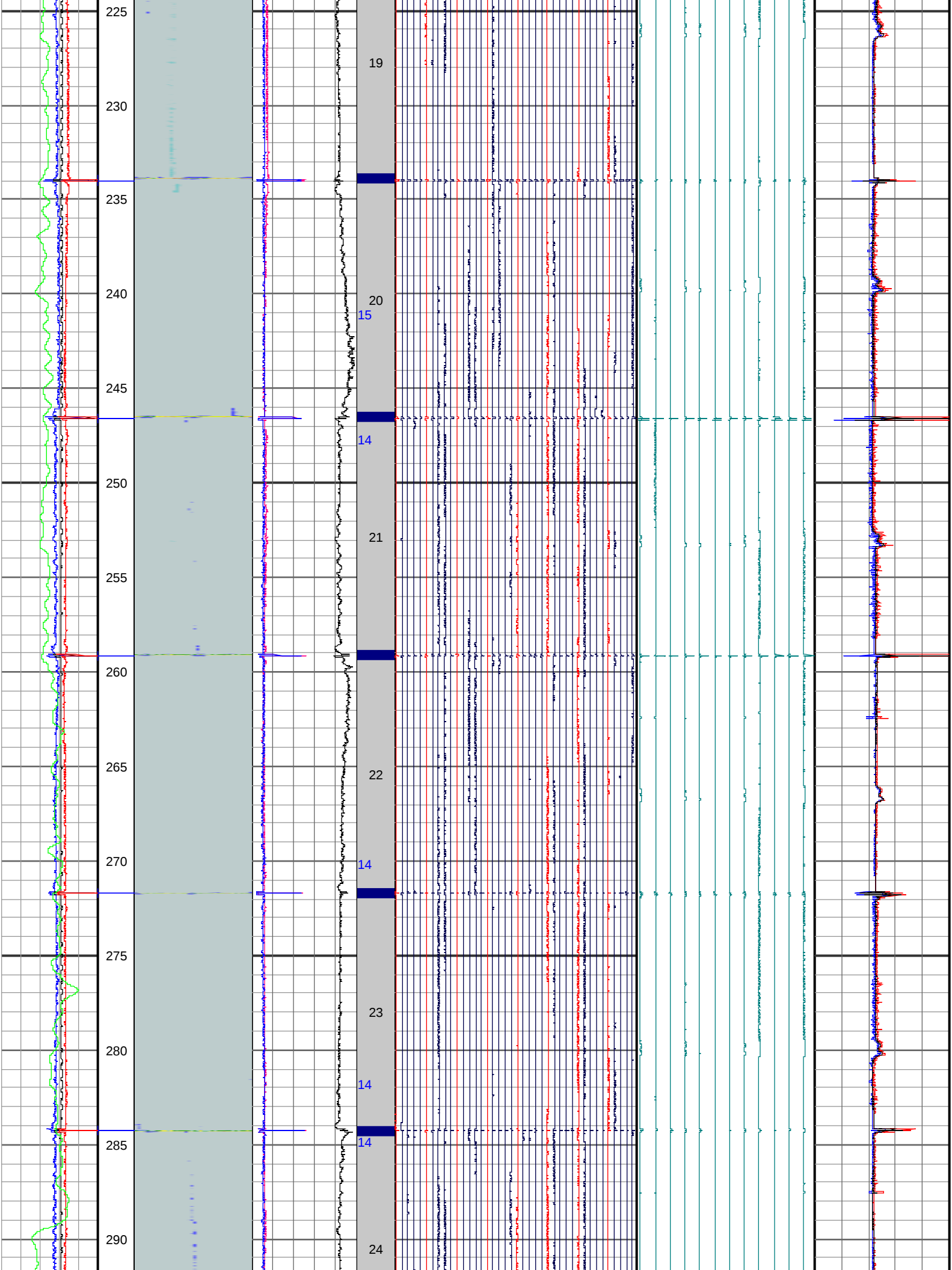


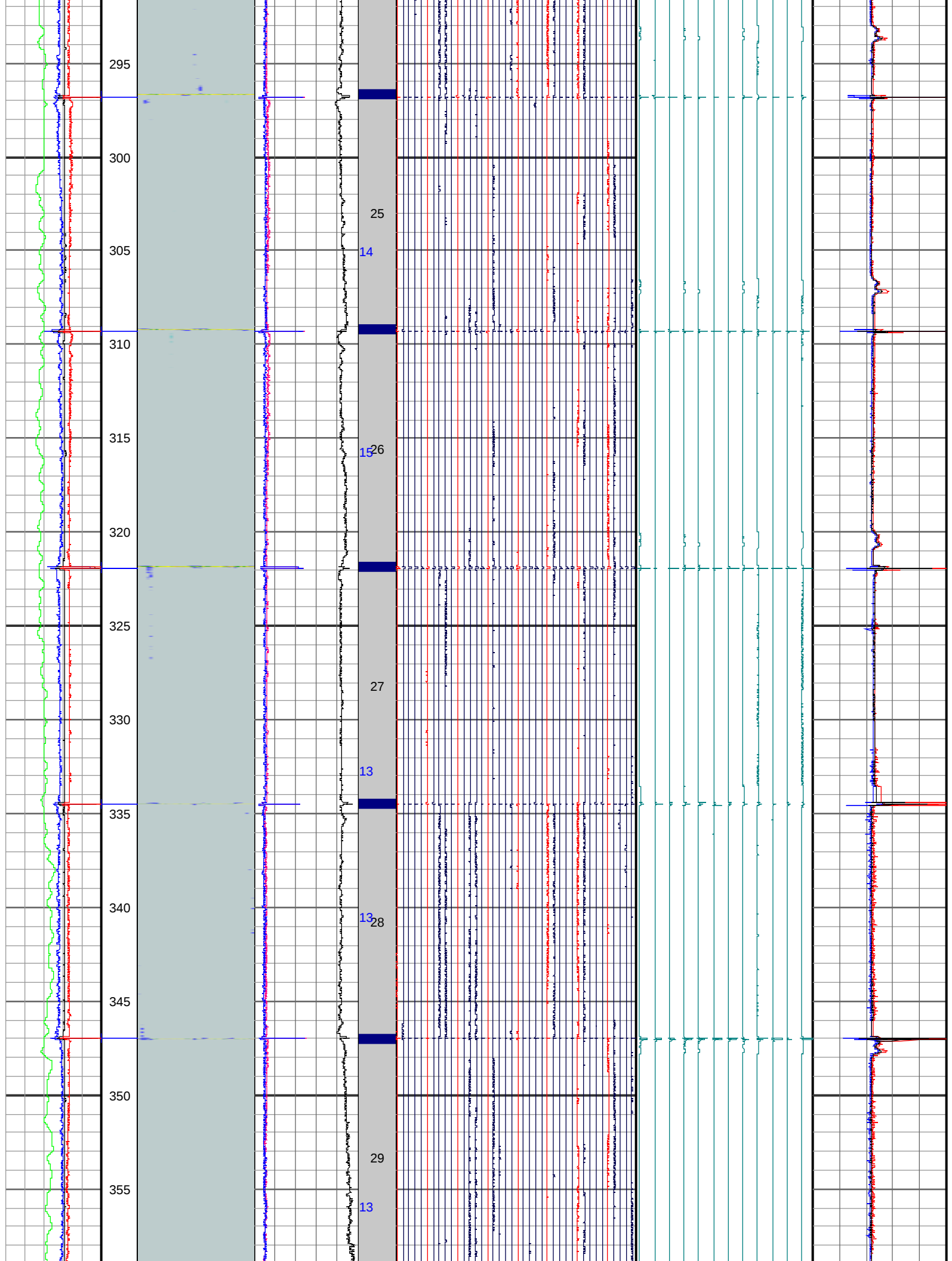


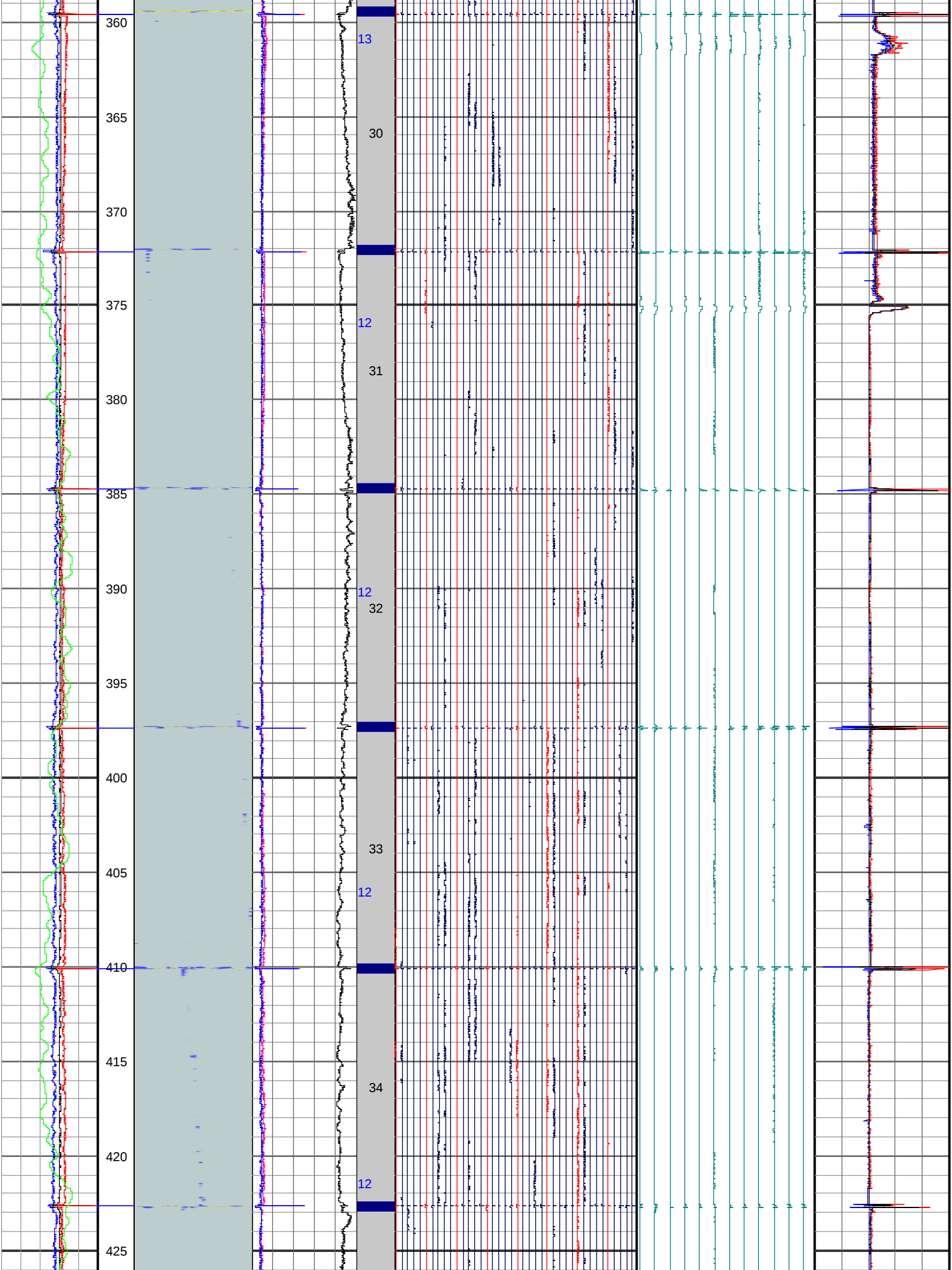
Cross
Section 0

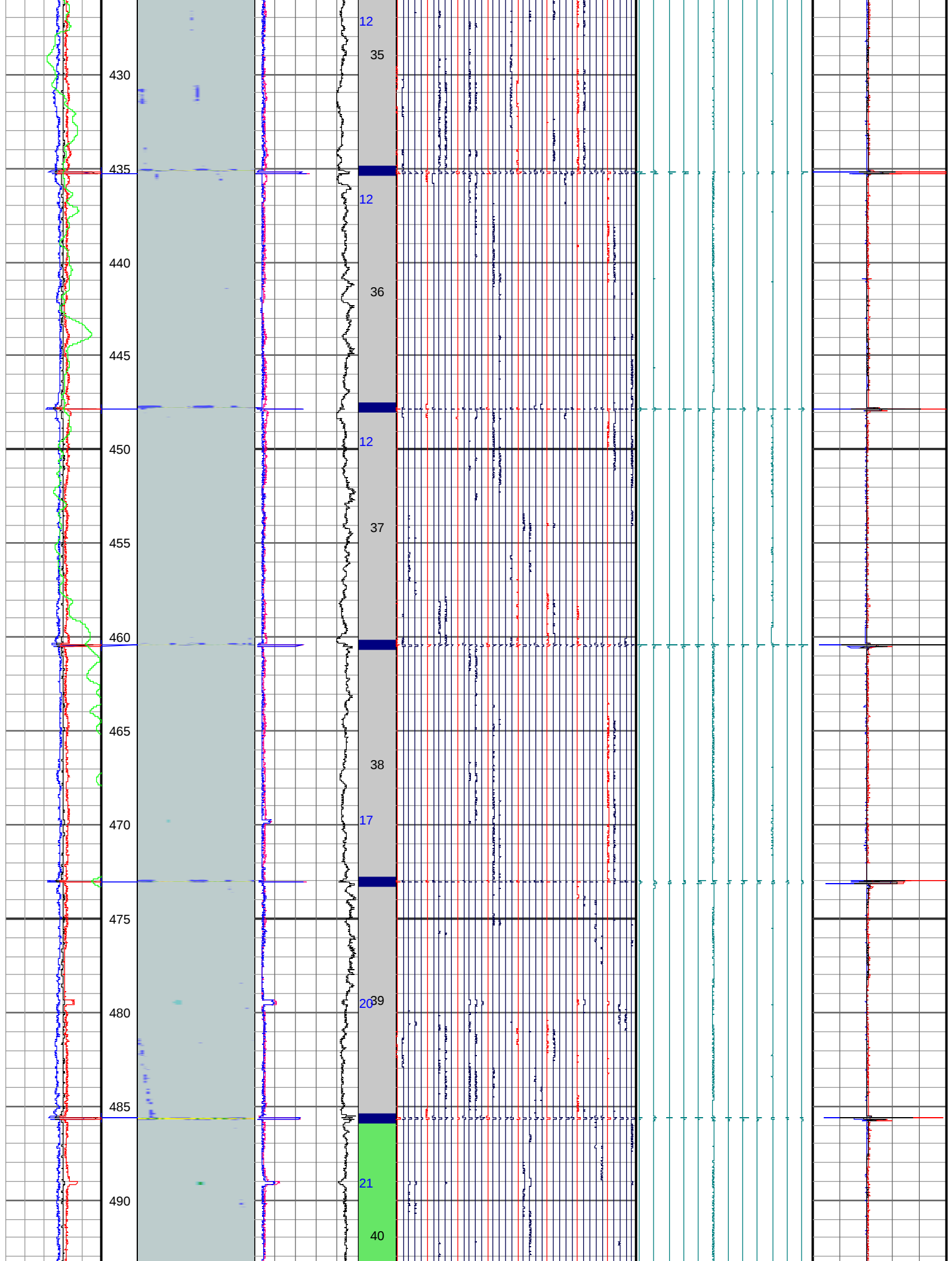


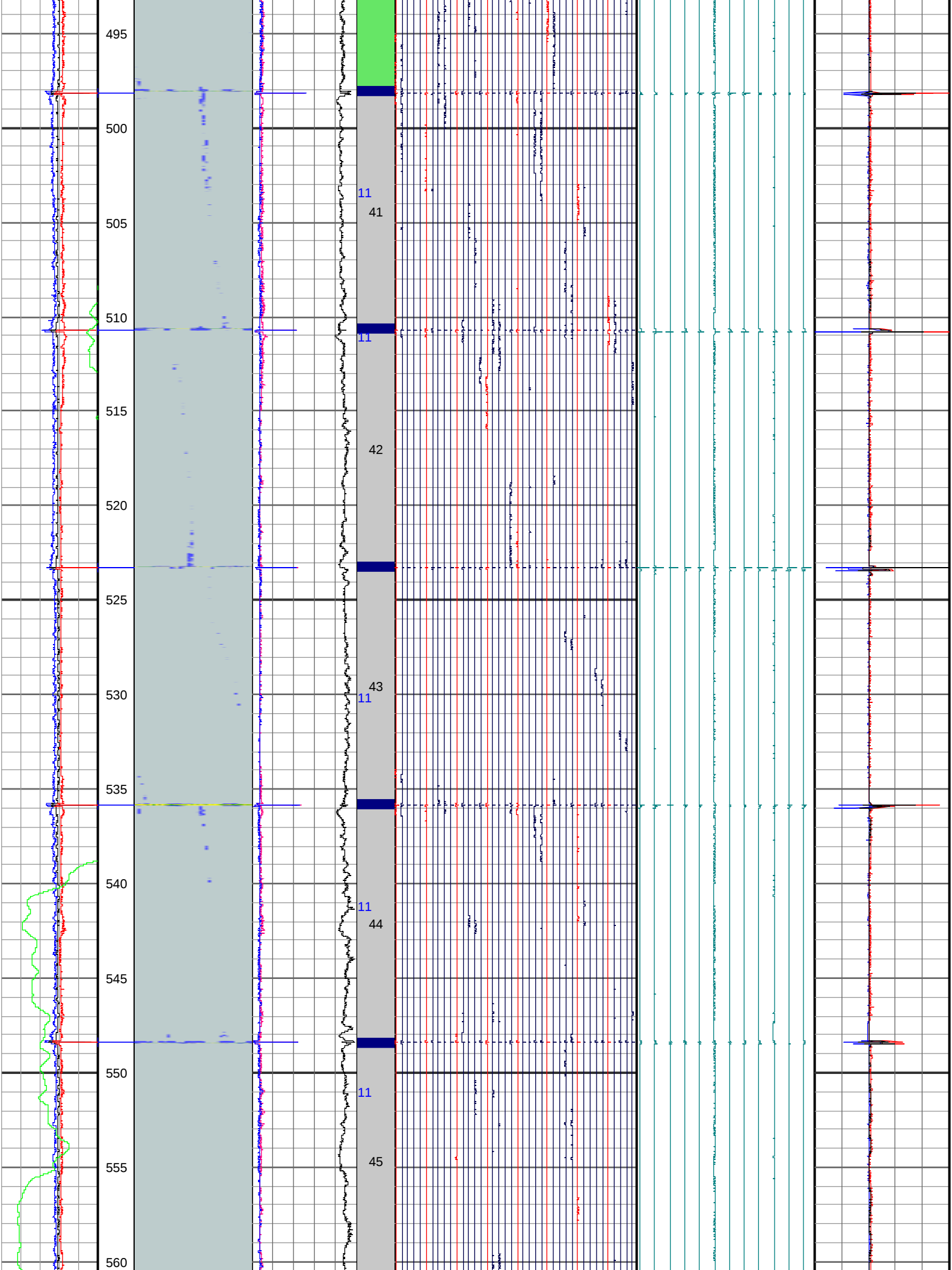


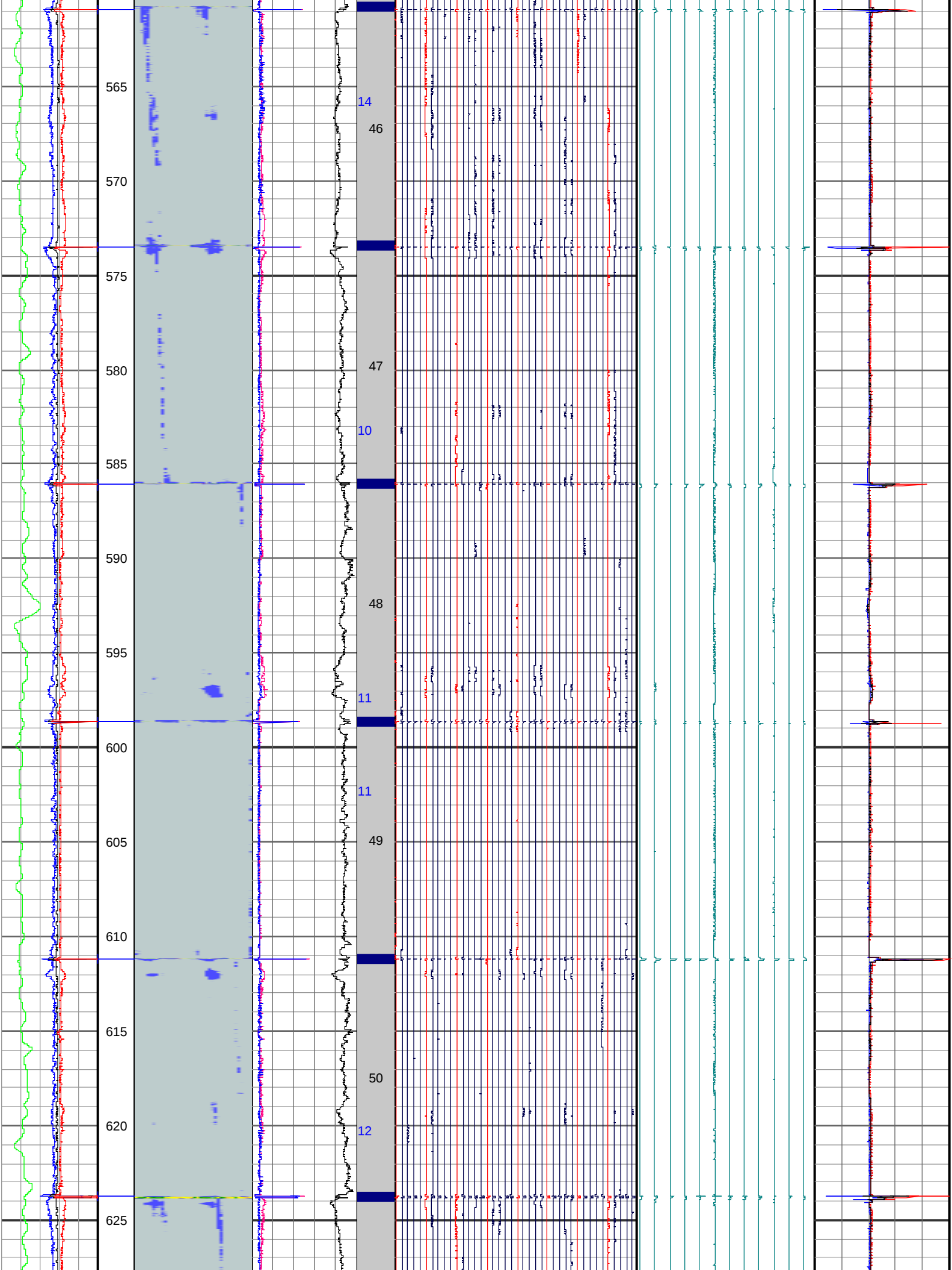


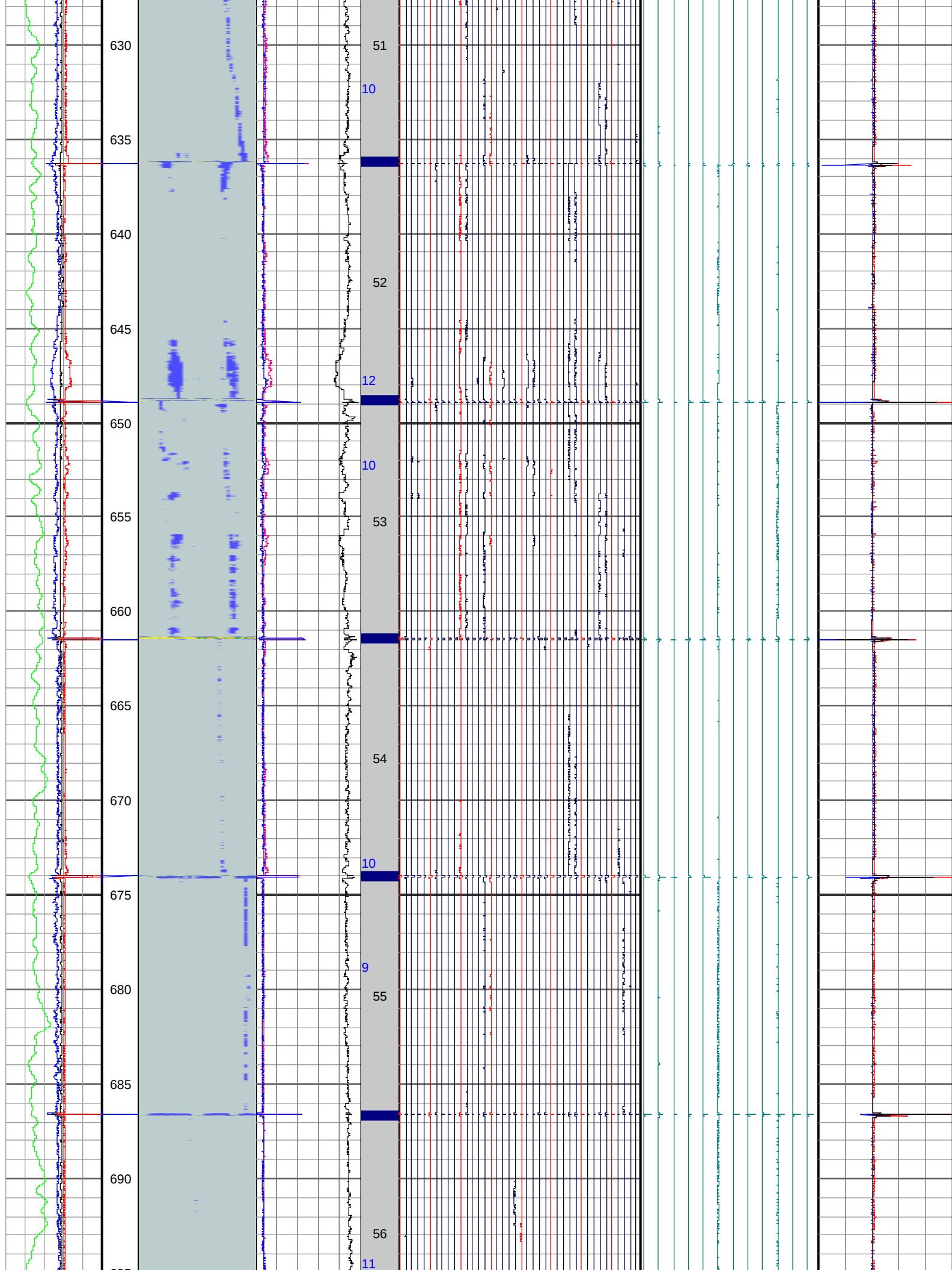


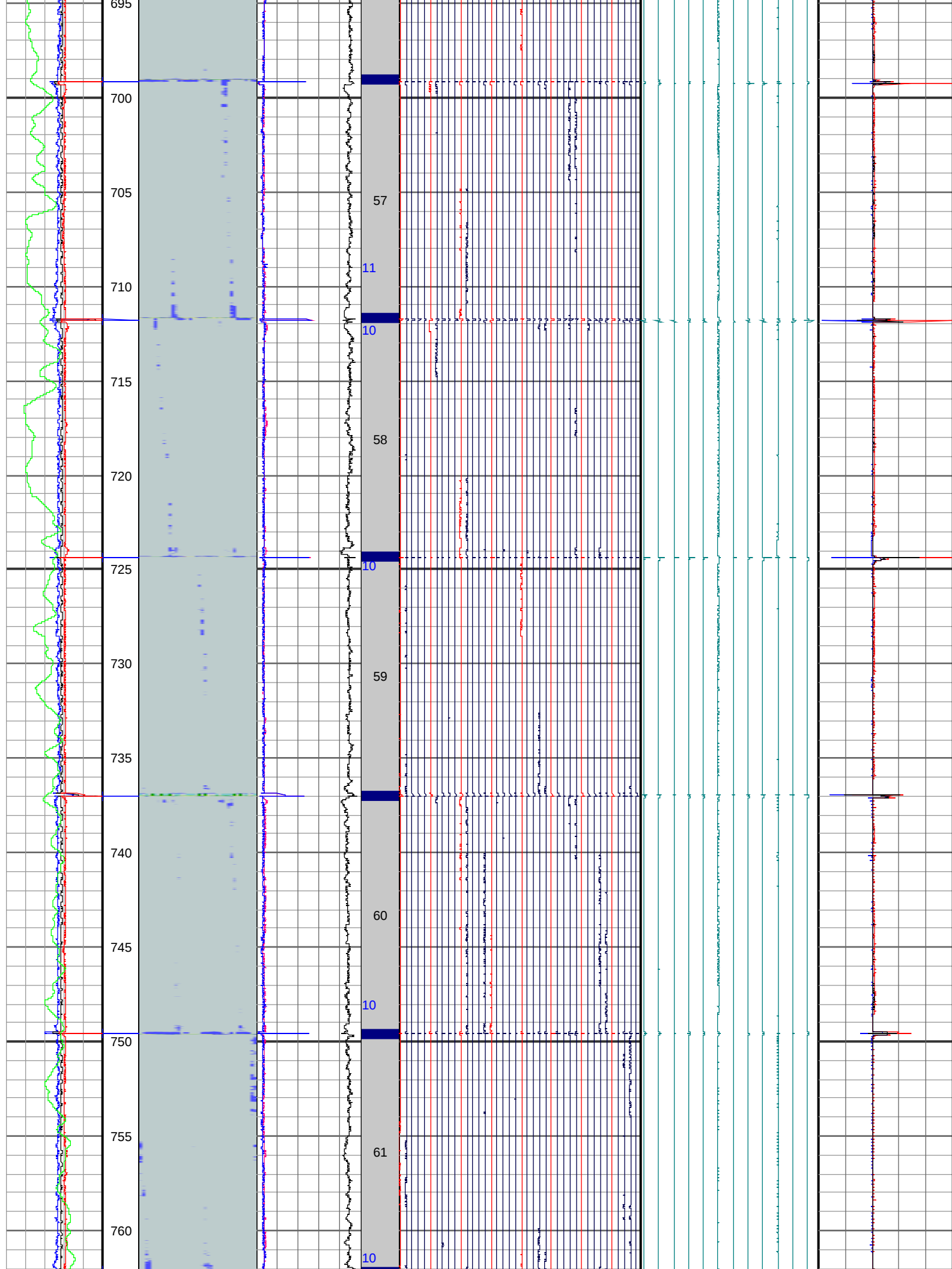


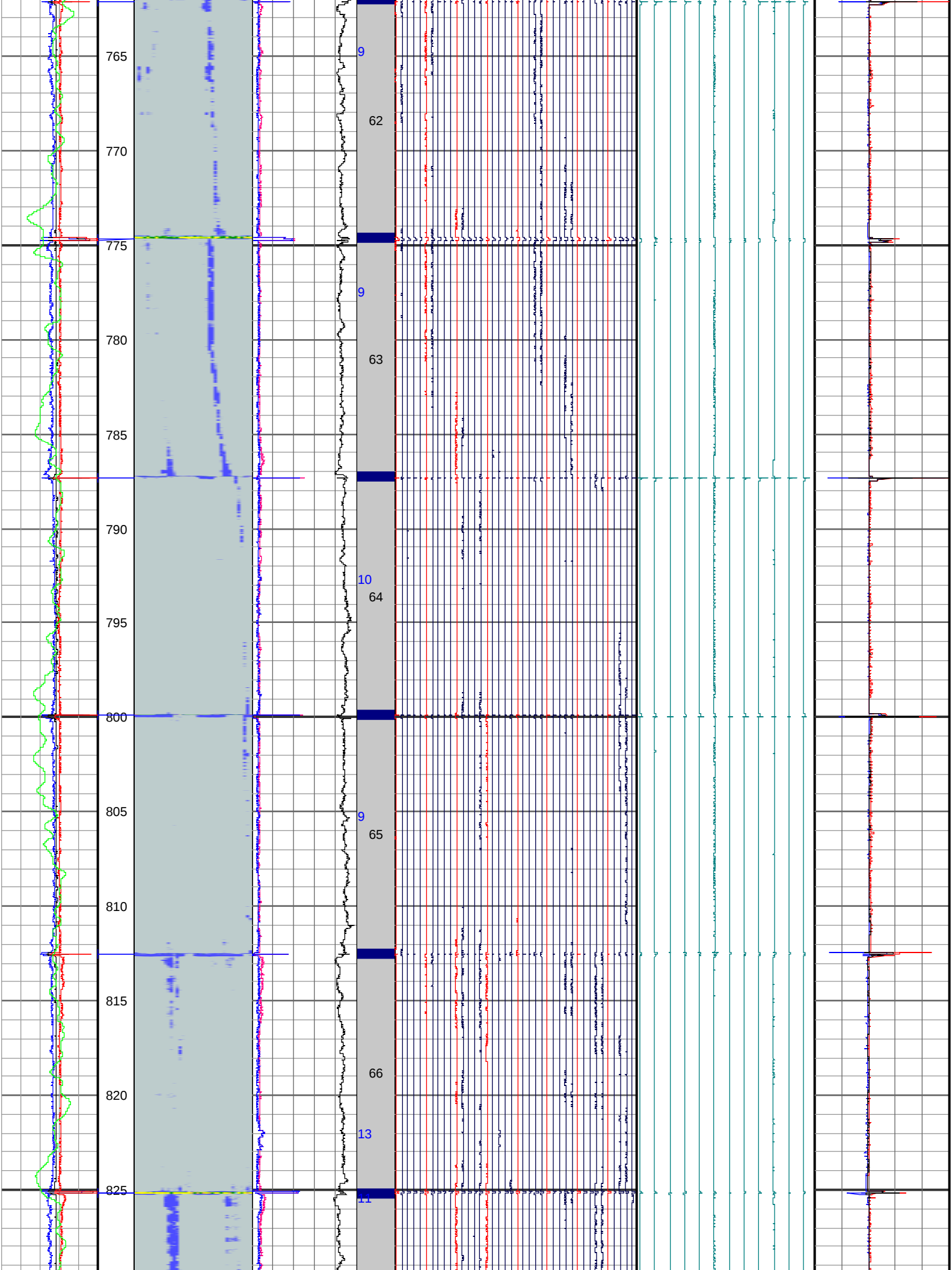


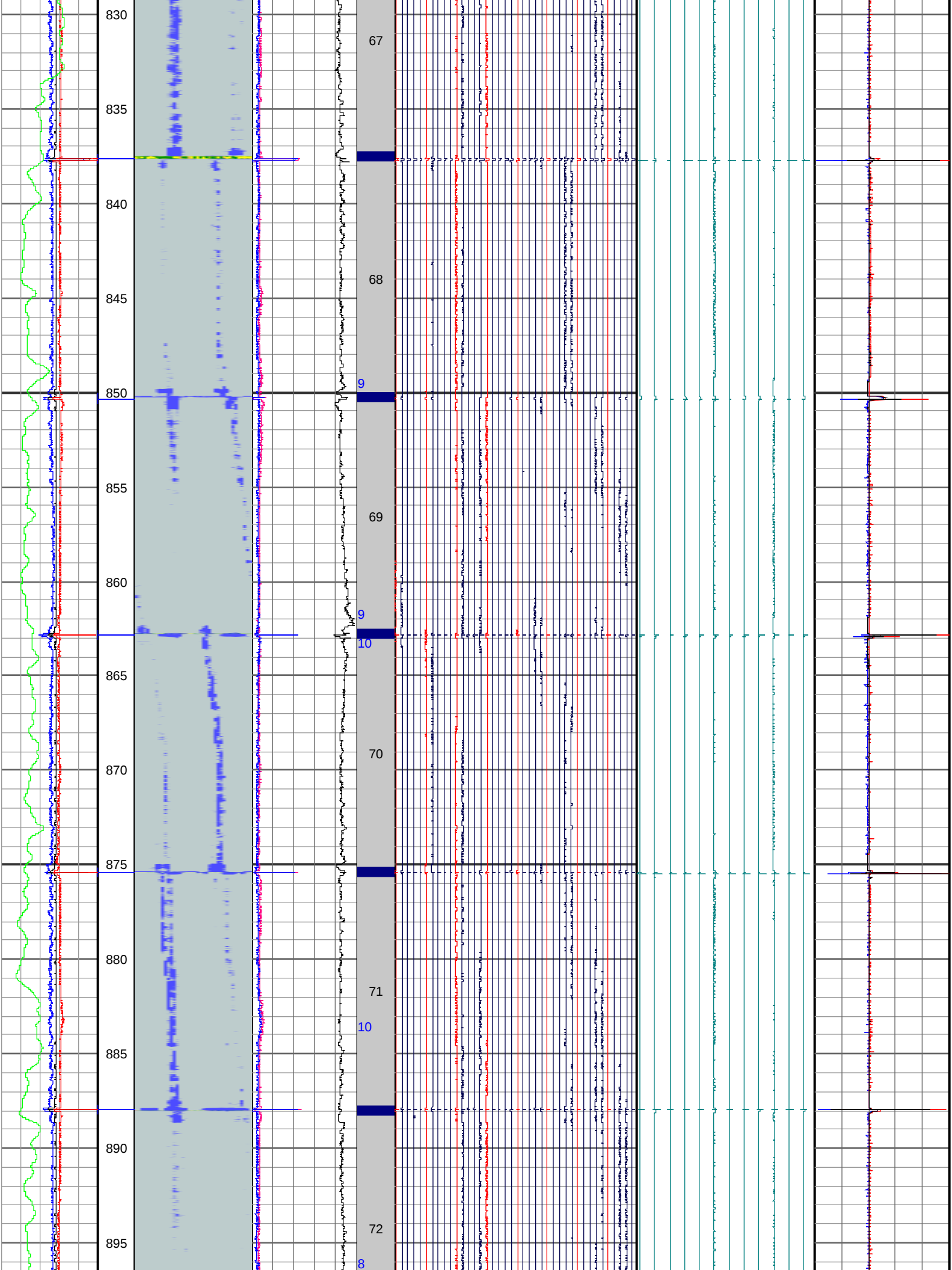


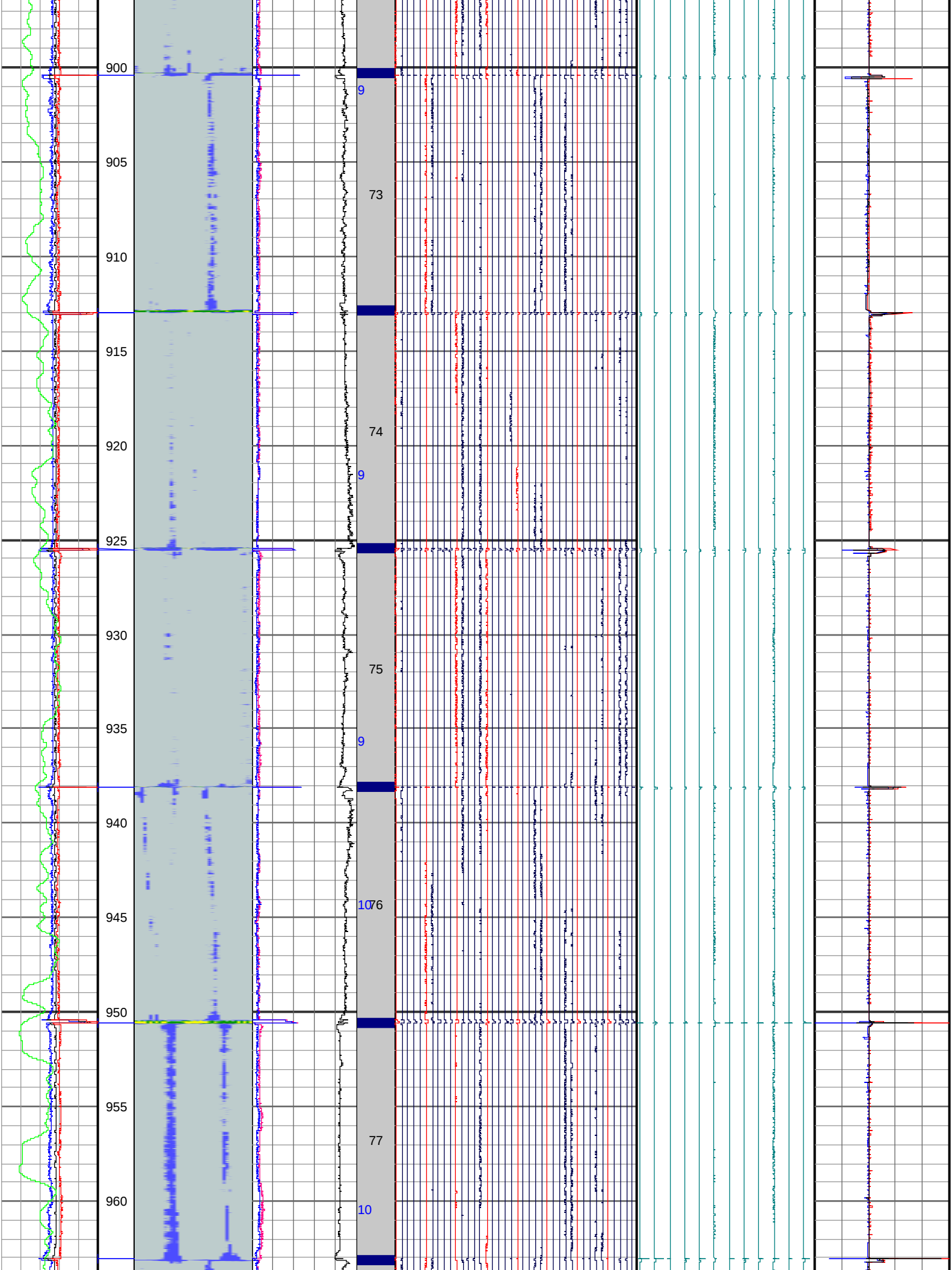


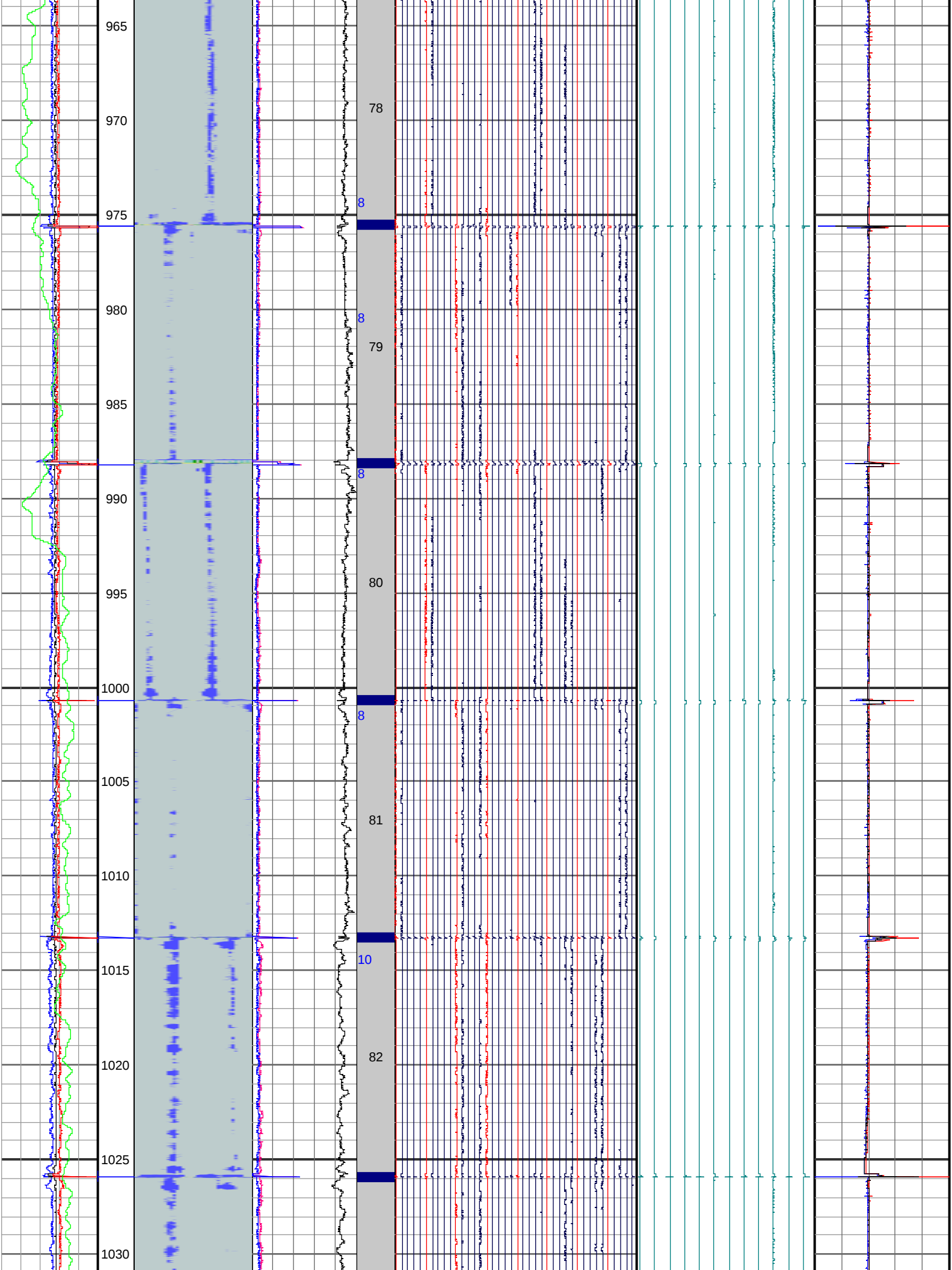


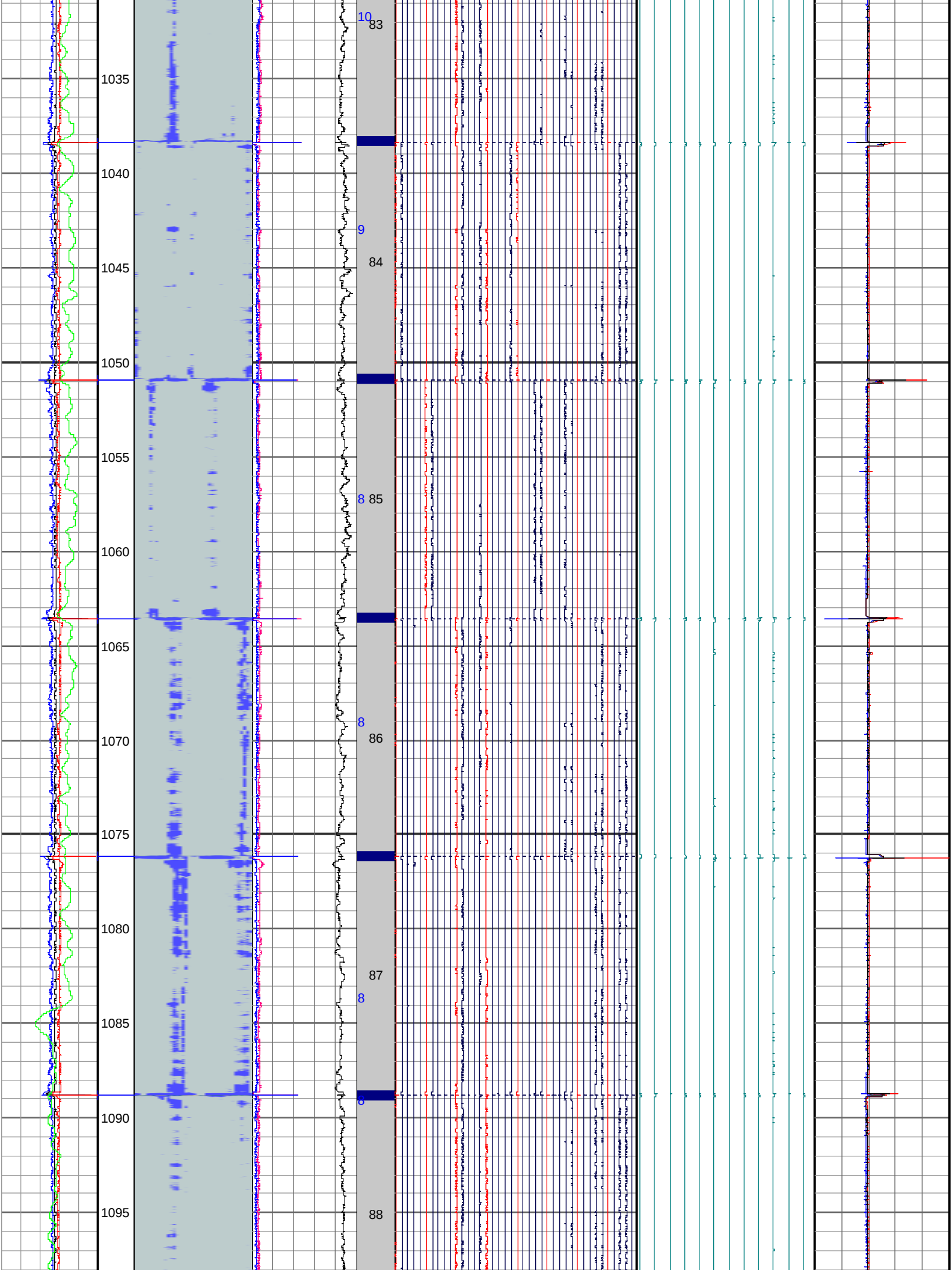


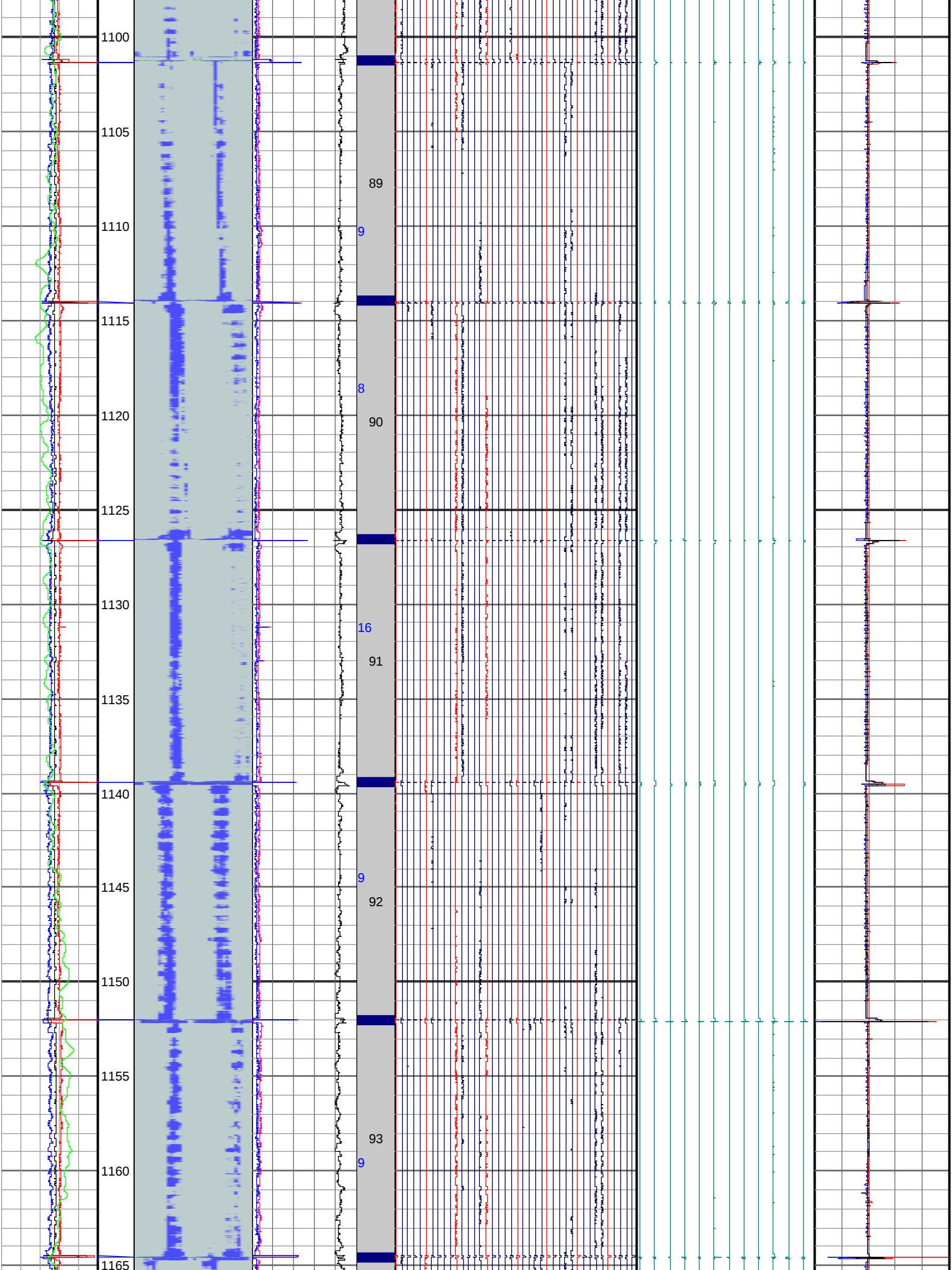


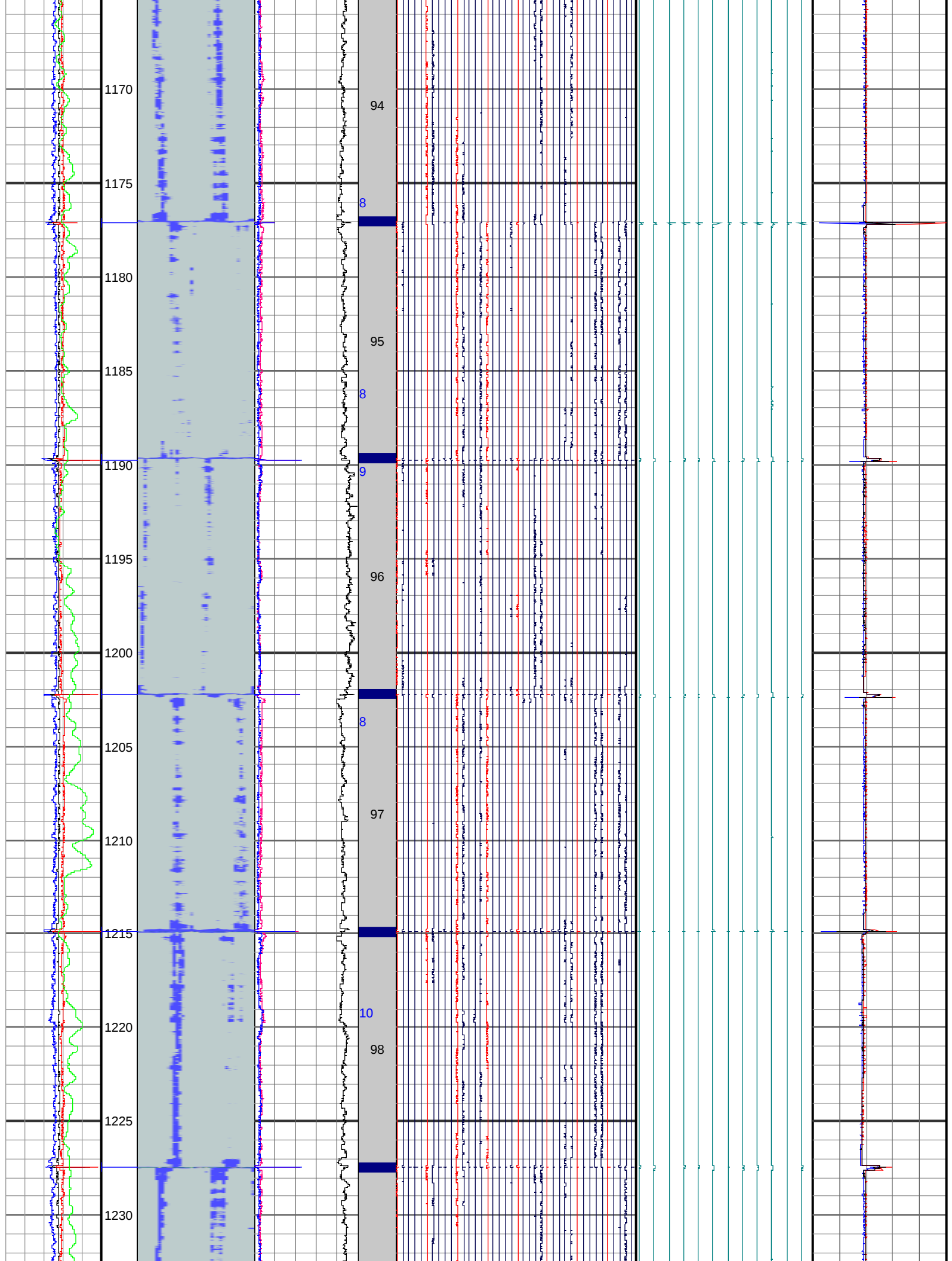


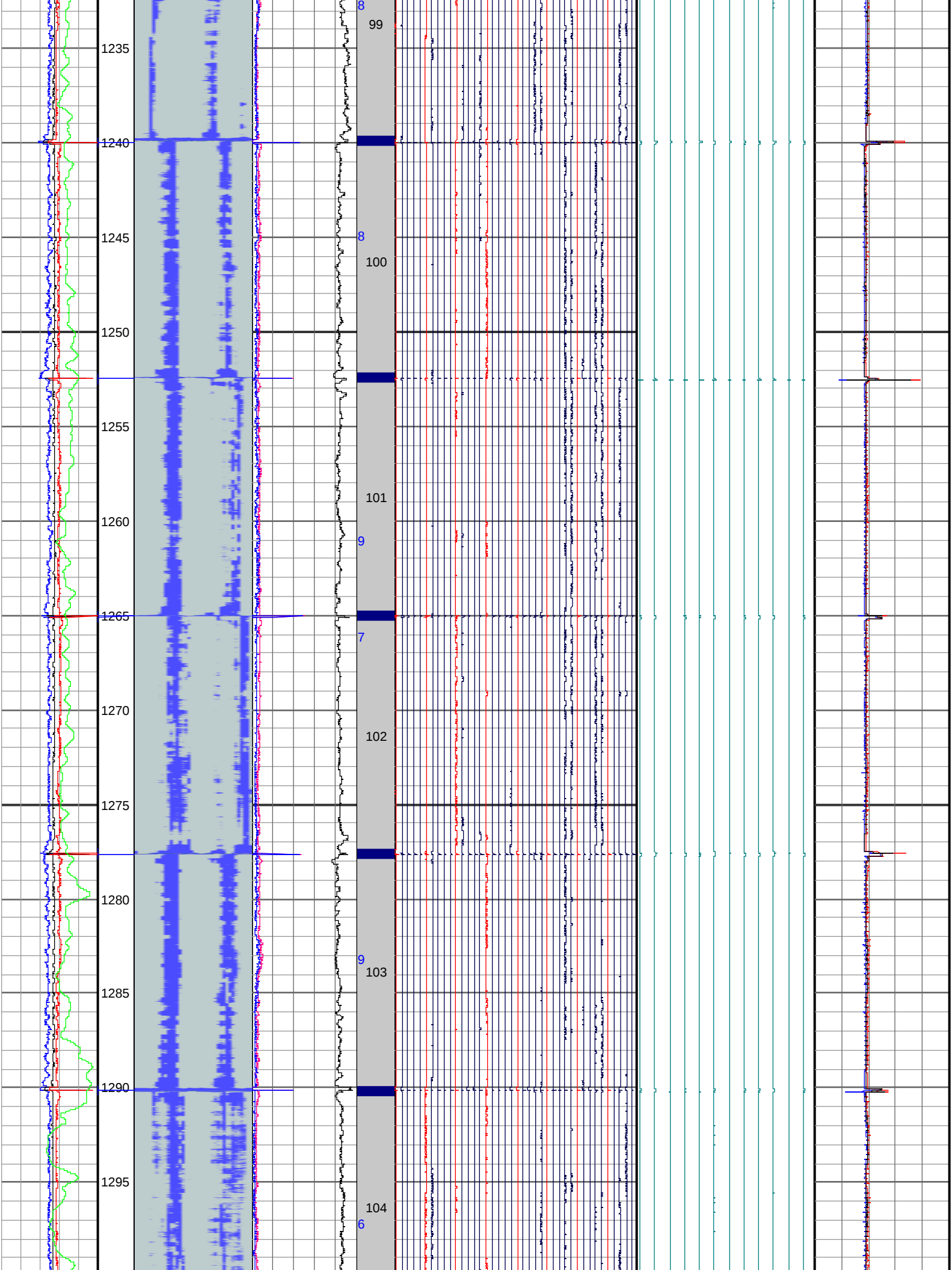


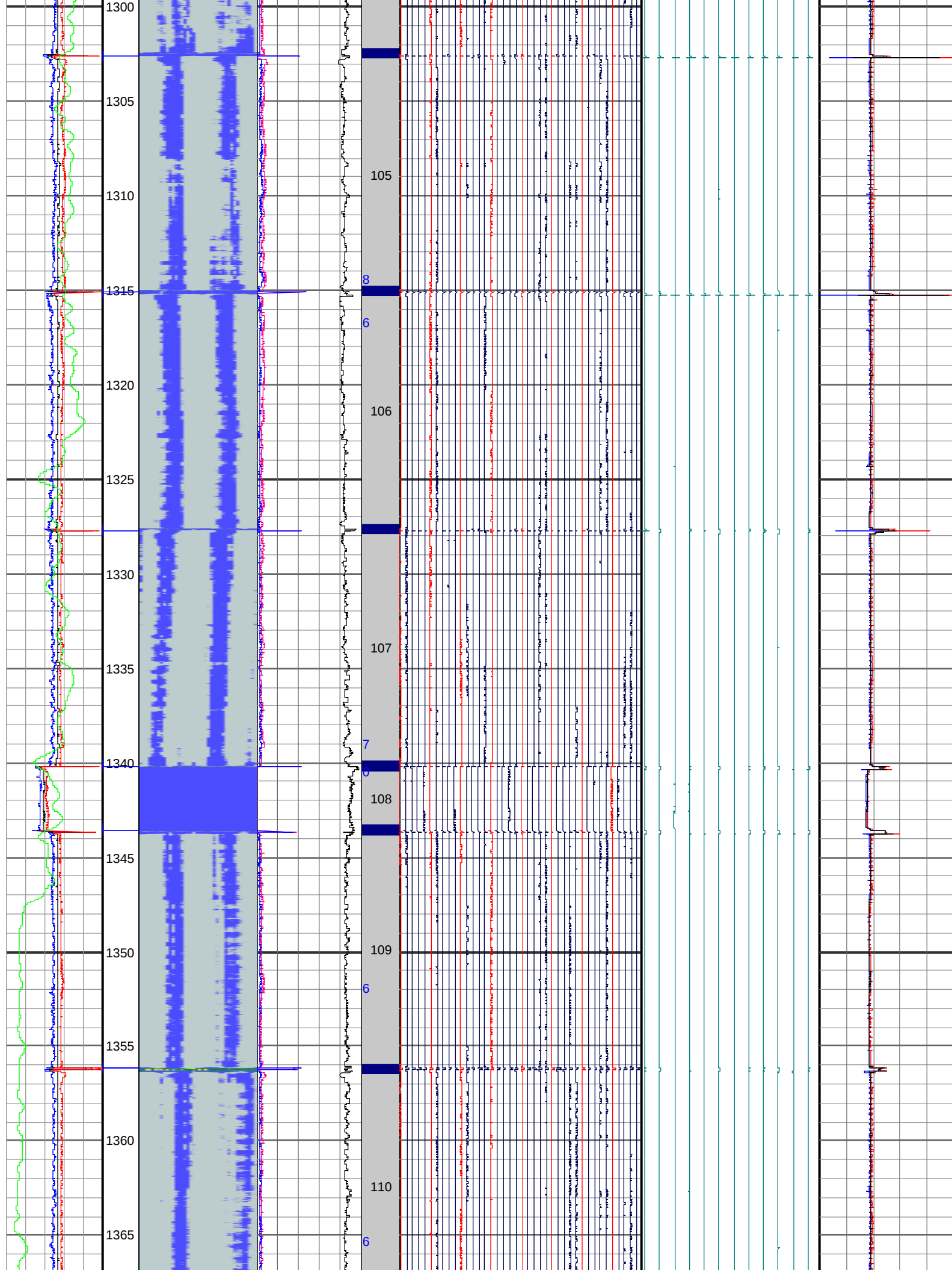


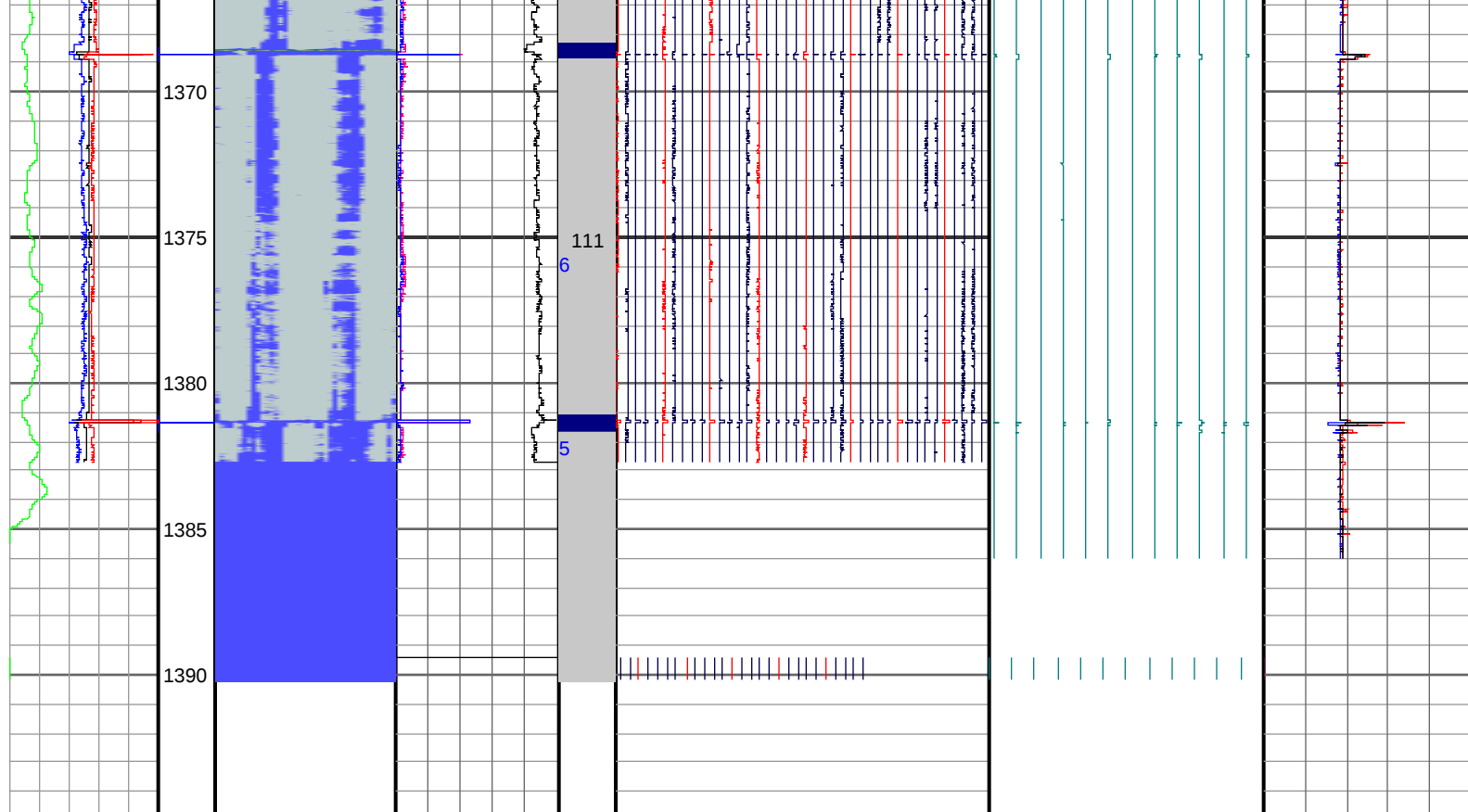












SCALE 1 : 240 (Meters)

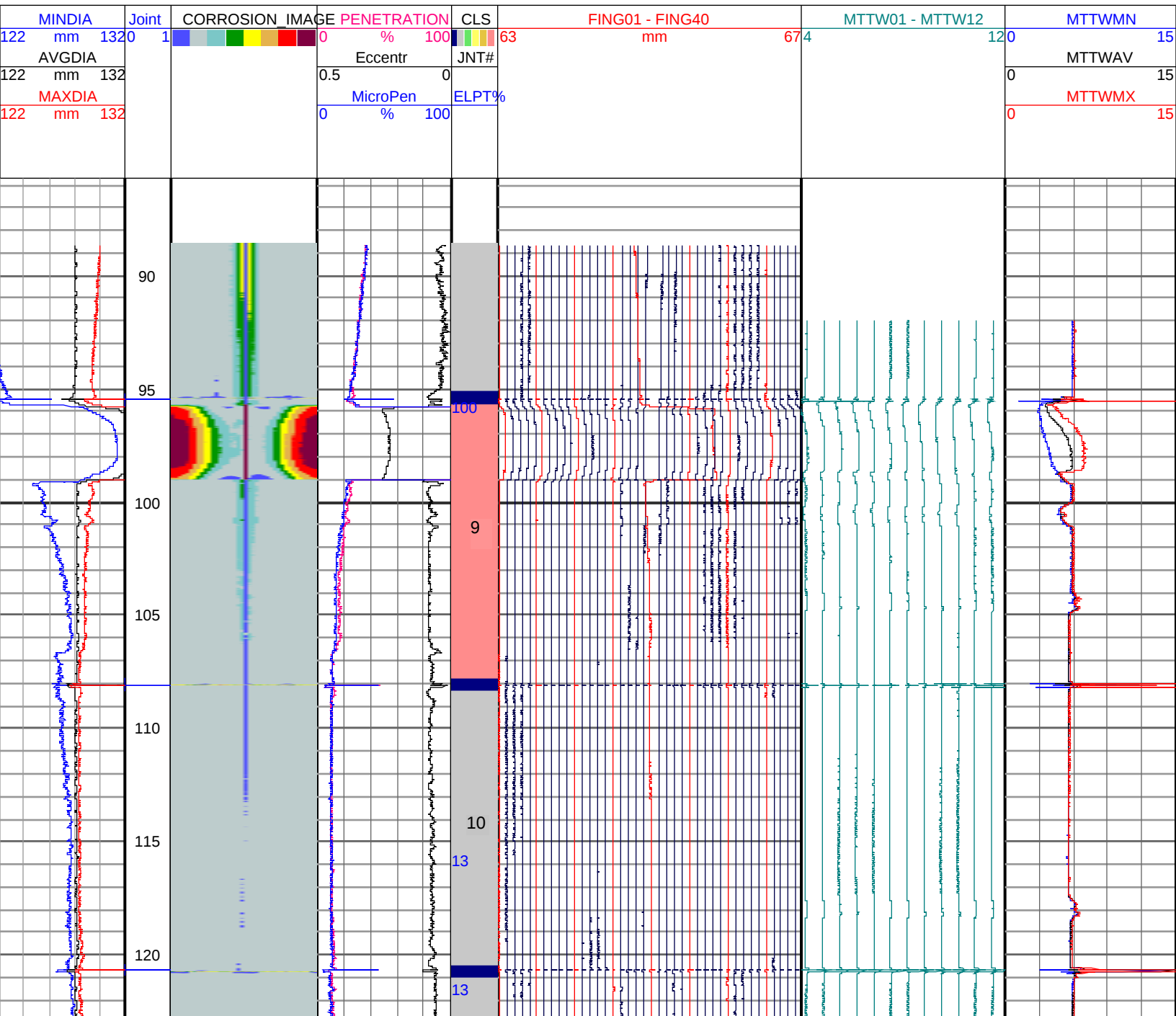
Date: 23-02-2015 Time: 8-32 Monday

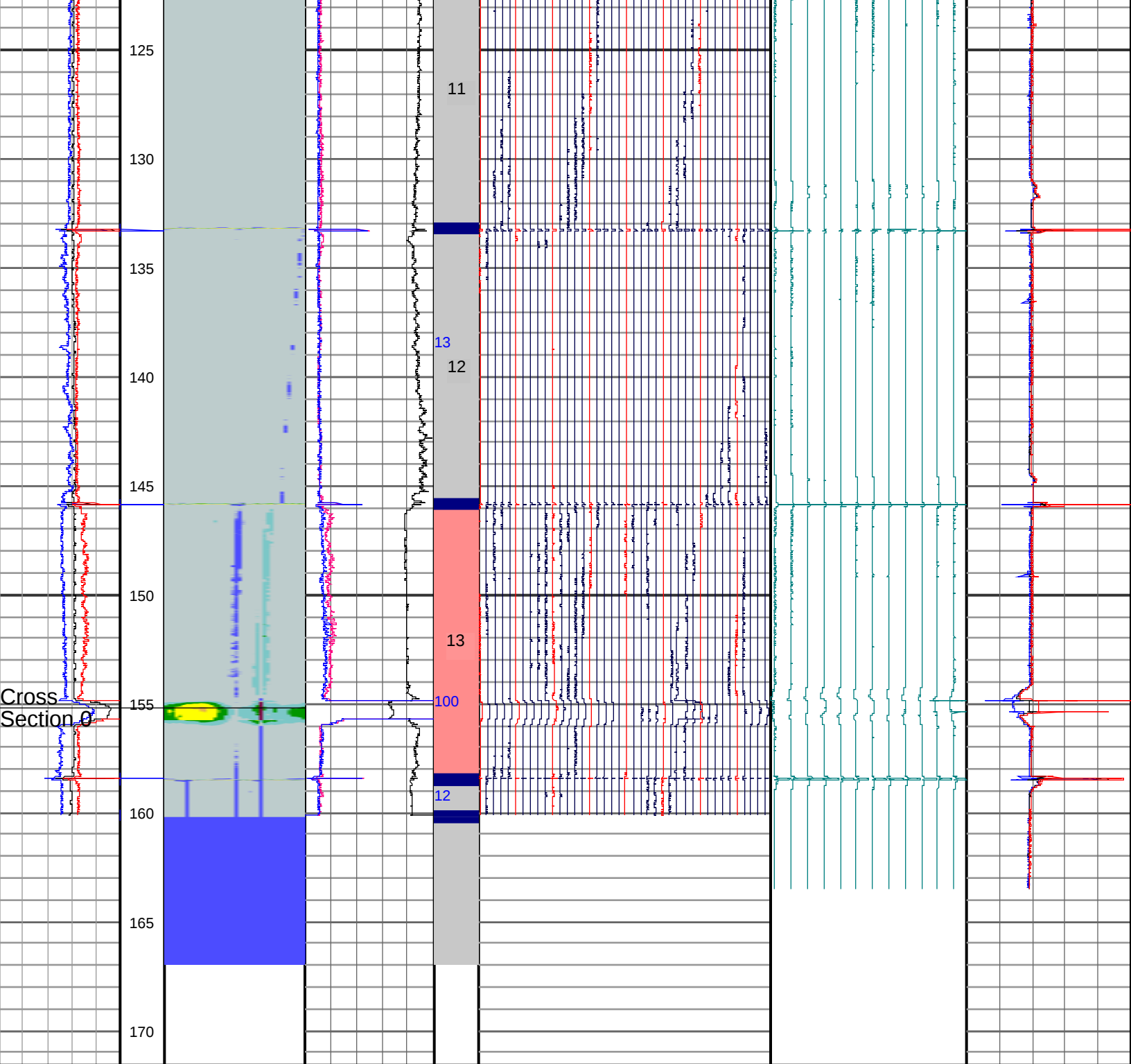
Caliper data processed with CardLine program CardGio Corporation.

Joint Summary

Joint	From	To	Length	Combined	Combined	Pit Position	OD / ID	Minimum Diameter	Maximum Diameter Position
#	(m)	(m)	(m)	Class	%	(m)	-	(mm)	(m)
9	95.47	108.07	12.6	5	100	95.79	ID	125	99.26
10	108.08	120.68	12.6	1	13	120.13	ID	127	108.53
11	120.69	133.26	12.56	1	13	121.51	ID	128	131.92
12	133.26	145.84	12.57	1	13	133.65	ID	127	134.91
13	145.85	158.42	12.57	5	100	154.89	ID	127	158.11

Repeat Pass (1:240).cgf





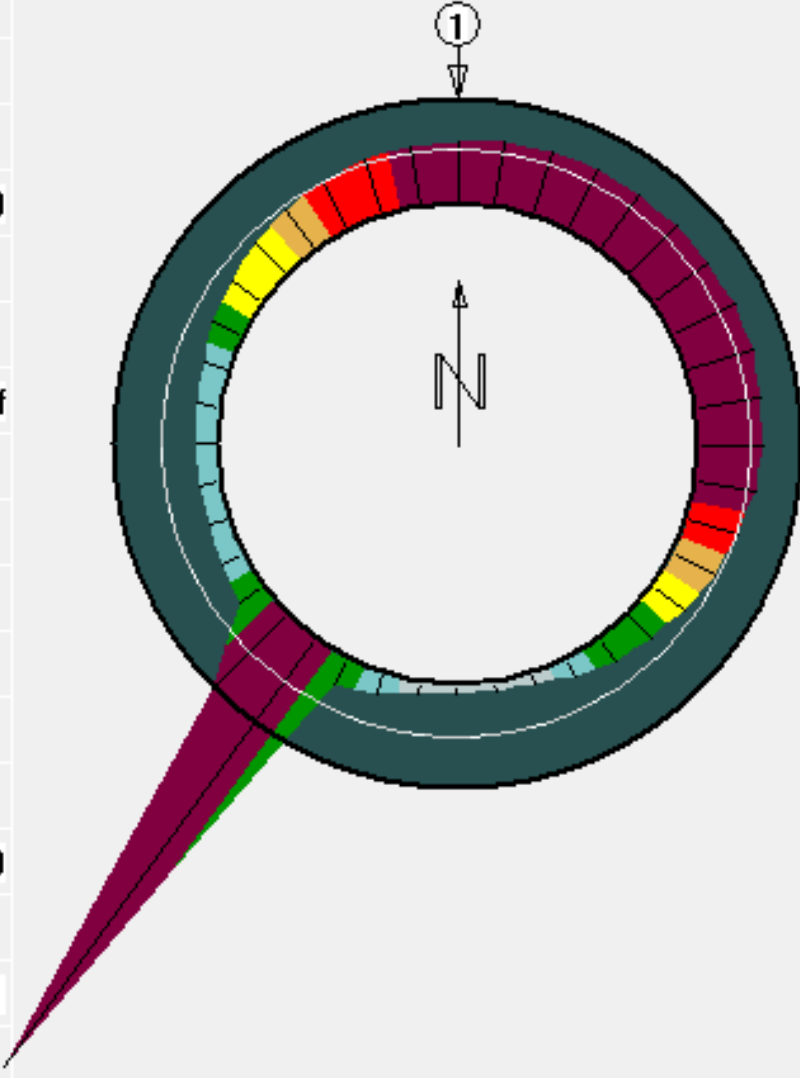
Date: 23-02-2015 Time: 6-10 Monday

Caliper data processed with CardLine program CardGio Corporation.

Cross Section 0. Joint 9

Company:		
Well No.:		
Weight (lb/ft):		
OD (New) (mm/in):	139.7	5.500
ID (New) (mm/in)	127.1	5.005
Start Depth (m/ft):	-0.00	-0.0
Final Depth (m/ft):	1390.17	4560.9
Scroll Interval(m/ft)	0.00	0.02
Current Depth (m/ft):	97.00 m	318.3 f
Min Diameter (mm/in)	131.2	5.164
Max Diameter (mm/in)	163.0	6.418
AVG Diameter (mm/in)	133.7	5.264
Rotation	0	
Start of Interval (m/ft)	-0.0	-0.0
End of Interval (m/ft)	1390.2	4560.9
Min/Interval (mm/in)	0.1	0.005
Min At Depth (m/ft)	1389.62	4559.1
Max/Interval (mm/in)	250.9	9.877
File: Processed Main.cgf	61	2.0

1



97.00 m318.3 f

+FMC Technologies