



Multi Sensor 40 Arm Caliper
Average Wall Thickness
Gamma Ray CCL
Log

Company Chevron Oil & Gas
Well Union Pacific 72x-31
Field Rangley
County Rio Blanco State Co

Location: API #: Other Services

SEC 31 TWP 2N RGE 102W
1329' SNL & 1309' WEL
Permanent Datum Ground Level Elevation 5283'
Log Measured From KB 12'
Drilling Measured From KB
Elevation
K.B. 5295
D.F. 5294
G.L. 5283

Company Chevron Oil & Gas
Well Union Pacific 72x-31
Field Rangley
County Rio Blanco
State Co

Date 01-Aug-2017

Run Number	One
Depth Driller	6214'
Depth Logger	5554'
Bottom Logged Interval	5550'
Top Log Interval	Surface
Open Hole Size	8.750
Type Fluid	Water
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	OA
Time Logger on Bottom	14:45
Equipment Number	115
Location	Vernal
Recorded By	Eric Atwood
Witnessed By	Gabe Collins

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7"	23#	Surface	6214'
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments


Log Correlated to 11' KB

API Casing Dimensions

*LOG columns indicate the Wall Thickness values that may be displayed on the Caliper Log in NEW casing due only to A.P.I. Dimensional Tolerances

Casing O.D.			WGT	Wall Thickness		Casing I.D.			LOG*	
NOM	MAX	MIN	LB/FT	NOM	MIN	NOM	MAX	MIN	MAX	MIN

NOM.	MAX.	MIN.	LB/F 1	NOM.	MIN.	NOM.	MAX.	MIN.	MAX.	MIN.
4.500	4.534	4.466	9.50	.205	.179	4.090	4.175	4.056	.222	.163
			10.50	.224	.196	4.052	4.142	4.018	.241	.179
			11.60	.250	.219	4.000	4.096	3.966	.267	.202
			13.50	.290	.254	3.920	4.026	3.886	.307	.237
			15.10	.337	.295	3.826	3.944	3.792	.354	.278
5.000	5.038	4.963	11.50	.220	.193	4.560	4.653	4.523	.239	.174
			13.00	.253	.221	4.494	4.595	4.457	.272	.203
			15.00	.295	.259	4.408	4.520	4.371	.315	.240
			18.00	.362	.317	4.276	4.404	4.239	.318	.298
			23.20	.493	.431	4.014	4.175	3.977	.512	.413
5.500	5.541	5.459	14.00	.244	.214	5.012	5.114	4.971	.265	.193
			15.50	.275	.241	4.950	5.060	4.909	.296	.220
			17.00	.304	.266	4.892	5.009	4.851	.325	.245
			20.00	.361	.316	4.778	4.910	4.737	.383	.295
			23.00	.415	.363	4.670	4.815	4.629	.436	.343
6.625	6.675	6.575	20.00	.288	.252	6.049	6.171	5.999	.313	.227
			24.00	.352	.308	5.921	6.059	5.871	.377	.283
			28.00	.417	.365	5.791	5.945	5.741	.442	.340
			32.00	.475	.416	5.675	5.843	5.625	.500	.391
7.000	7.053	6.948	17.00	.231	.202	6.538	6.648	6.486	.257	.176
			20.00	.272	.238	6.456	6.577	6.404	.298	.212
			23.00	.317	.277	6.366	6.498	6.314	.343	.251
			26.00	.362	.317	6.276	6.419	6.224	.388	.291
			29.00	.408	.357	6.184	6.339	6.132	.434	.331
			32.00	.453	.396	6.094	6.260	6.042	.479	.370
			35.00	.498	.436	6.004	6.181	5.952	.524	.410
7.625	7.682	7.568	38.00	.540	.473	5.920	6.108	5.868	.566	.446
			24.00	.300	.263	7.025	7.157	6.968	.329	.234
			26.40	.328	.287	6.969	7.108	6.912	.357	.258
			29.70	.375	.328	6.875	7.026	6.818	.404	.300
			33.70	.430	.376	6.765	6.930	6.708	.459	.348
			39.00	.500	.438	6.625	6.807	6.568	.529	.409
8.625	8.690	8.560	45.30	.595	.521	6.435	6.641	6.378	.624	.492
			24.00	.264	.231	8.097	8.228	8.032	.296	.199
			28.00	.304	.266	8.017	8.158	7.952	.336	.234
			32.00	.352	.308	7.921	8.074	7.856	.384	.276
			36.00	.400	.350	7.825	7.990	7.760	.432	.318
			40.00	.450	.394	7.725	7.902	7.660	.482	.361
			44.00	.500	.438	7.625	7.815	7.560	.532	.405
9.625	9.697	9.553	49.00	.557	.487	7.511	7.715	7.446	.589	.455
			32.30	.312	.273	9.001	9.151	8.929	.348	.237
			36.00	.352	.308	8.921	9.081	8.849	.388	.272
			40.00	.395	.346	8.835	9.006	8.763	.431	.310
			43.50	.435	.381	8.755	8.936	8.683	.471	.345
			47.00	.472	.413	8.681	8.871	8.609	.508	.377
			53.50	.545	.477	8.535	8.743	8.463	.581	.441
			58.40	.595	.521	8.435	8.656	8.363	.631	.485
10.750	10.831	10.669	61.10	.625	.547	8.375	8.603	8.303	.661	.511
			32.75	.279	.244	10.192	10.342	10.111	.319	.204
			40.50	.350	.306	10.050	10.218	9.969	.390	.266
			45.50	.400	.350	9.950	10.131	9.869	.440	.310
			51.00	.450	.394	9.850	10.043	9.769	.490	.353
			55.50	.495	.433	9.760	9.964	9.679	.535	.393
			60.70	.545	.477	9.660	9.877	9.579	.585	.437
			65.70	.595	.521	9.560	9.789	9.479	.635	.480
			71.10	.650	.569	9.450	9.693	9.369	.690	.528

 <i>A Cased Hole Wireline Company</i>			PIPE TALLY SUMMARY				
			Company	Chevron Oil & Gas			
			Well	Union Pacific 72x-31			
			Field	Rangley			
			County	Rio Blanco	State	Co	
JOINT CLASSIFICATION			Comments				
Range	Symbol	# Joints	Log Correlated to 11' KB				
0% to 10%	A	51					
10% to 20%	B	119					
20% to 30%	C	0					
30% to 40%	D	0					
40% to 50%	E	0					

Log Correlated to 11' KB

Joint number, Depth, Length, Maximum Penetration Percentage, and Symbol

91	2957.0	33.0	12%		121	3929.1	33.4	10%		151	4893.0	25.8	8%	
92	2990.0	33.1	10%		122	3962.4	32.9	8%		152	4918.8	32.4	10%	
93	3023.1	32.0	10%		123	3995.3	32.9	13%		153	4951.2	32.6	10%	
94	3055.1	32.9	10%		124	4028.2	32.3	12%		154	4983.9	31.8	9%	
95	3088.0	30.9	10%		125	4060.5	30.6	2%		155	5015.6	32.5	11%	
96	3118.9	33.0	13%		126	4091.1	31.4	4%		156	5048.1	33.6	10%	
97	3152.0	33.2	12%		127	4122.5	32.4	10%		157	5081.7	32.5	11%	
98	3185.2	31.1	5%		128	4154.9	31.6	6%		158	5114.3	31.4	8%	
99	3216.3	32.8	9%		129	4186.5	33.0	15%		159	5145.7	31.6	10%	
100	3249.2	32.7	10%		130	4219.5	33.4	16%		160	5177.3	32.4	9%	
101	3281.9	33.7	14%		131	4252.9	30.4	4%		161	5209.7	31.4	13%	
102	3315.6	30.8	5%		132	4283.3	31.4	13%		162	5241.2	32.4	9%	
103	3346.4	32.8	9%		133	4314.6	33.1	15%		163	5273.5	32.6	10%	
104	3379.2	32.3	13%		134	4347.8	32.7	12%		164	5306.1	31.8	11%	
105	3411.4	33.4	12%		135	4380.5	32.7	12%		165	5337.9	31.6	12%	
106	3444.8	32.0	9%		136	4413.2	33.5	14%		166	5369.5	32.8	11%	
107	3476.8	31.1	8%		137	4446.7	32.5	15%		167	5402.4	32.4	11%	
108	3507.9	32.5	8%		138	4479.1	32.5	16%		168	5434.8	30.2	17%	
109	3540.4	32.6	10%		139	4511.6	33.4	14%		169	5465.0	37.0	18%	
110	3573.1	32.6	8%		140	4545.0	32.2	13%		170	5502.0	33.2	13%	
111	3605.7	32.9	10%		141	4577.2	29.3	12%		171	5535.2	0.0		
112	3638.6	32.6	10%		142	4606.5	32.8	13%						
113	3671.2	33.3	12%		143	4639.3	30.4	12%						
114	3704.5	31.6	9%		144	4669.7	32.8	11%						
115	3736.1	31.1	9%		145	4702.5	32.6	12%						
116	3767.1	32.5	9%		146	4735.1	30.1	9%						
117	3799.6	32.4	10%		147	4765.2	32.8	12%						
118	3832.0	32.0	12%		148	4798.0	30.9	12%						
119	3864.0	32.7	11%		149	4828.9	31.7	12%						
120	3896.7	32.4	9%		150	4860.6	32.4	10%						

Sheet: 2 of 2

Log Date: 01-Aug-2017

CompanyChevron Oil & Gas
Well: Union Pacific 72x-31

Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
1	37.1	32.7			0.277
2	69.8	31.9			0.285
3	101.7	32.4			0.282
4	134.1	31.9			0.281
5	166.0	31.8			0.284
6	197.8	32.8			0.279
7	230.6	33.1			0.266
8	263.7	31.9			0.285
9	295.6	32.5			0.282
10	328.1	32.8			0.285
11	360.9	32.8			0.291

Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
26	845.4	33.4			0.276
27	878.8	32.7			0.285
28	911.5	33.0			0.287
29	944.5	31.4			0.278
30	975.8	32.9			0.277
31	1008.7	32.8			0.278
32	1041.6	31.5			0.285
33	1073.0	32.8			0.285
34	1105.8	32.1			0.286
35	1137.9	32.9			0.282
36	1170.8	32.6			0.282

12	393.7	32.0		0.285
13	425.8	32.8		0.285
14	458.6	32.6		0.283
15	491.2	32.1		0.282
16	523.4	33.5		0.280
17	556.9	31.6		0.285
18	588.5	32.4		0.285
19	620.8	33.1		0.278
20	654.0	32.3		0.278
21	686.3	32.1		0.283
22	718.4	32.9		0.283
23	751.3	31.6		0.279
24	782.9	30.7		0.290
25	813.6	31.8		0.289

37	1203.4	32.9		0.286
38	1236.3	32.4		0.279
39	1268.7	32.7		0.280
40	1301.4	32.6		0.283
41	1334.0	32.2		0.281
42	1366.2	31.4		0.284
43	1397.6	32.5		0.282
44	1430.1	32.6		0.282
45	1462.8	33.4		0.279
46	1496.1	32.3		0.286
47	1528.4	32.9		0.285
48	1561.3	33.1		0.285
49	1594.4	31.9		0.281
50	1626.4	31.6		0.284

Log Date:01-Aug-2017

Sheet: 1 of 4

CompanyChevron Oil & Gas
Well: Union Pacific 72x-31



Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
51	1657.9	32.4			0.281
52	1690.3	31.9			0.298
53	1722.2	32.6			0.283
54	1754.8	31.6			0.285
55	1786.4	32.3			0.285
56	1818.6	32.5			0.268
57	1851.2	32.9			0.282
58	1884.0	31.8			0.293
59	1915.8	33.3			0.285
60	1949.1	32.2			0.284
61	1981.3	32.6			0.285
62	2013.9	33.6			0.280
63	2047.5	33.5			0.279
64	2080.9	28.9			0.284
65	2109.8	31.9			0.282
66	2141.7	31.7			0.291
67	2173.4	32.4			0.285
68	2205.8	32.0			0.288
69	2237.9	32.5			0.285
70	2270.3	33.2			0.280
71	2303.5	33.3			0.281
72	2336.8	32.6			0.286
73	2369.4	32.8			0.288
74	2402.1	32.5			0.286
75	2434.6	33.4			0.284

Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
76	2468.0	32.9			0.281
77	2500.8	31.4			0.282
78	2532.2	32.6			0.277
79	2564.8	32.5			0.283
80	2597.3	33.0			0.285
81	2630.4	31.7			0.282
82	2662.0	31.7			0.290
83	2693.7	33.5			0.283
84	2727.3	32.5			0.290
85	2759.8	33.6			0.280
86	2793.4	32.0			0.286
87	2825.5	32.6			0.287
88	2858.1	33.0			0.276
89	2891.1	32.4			0.291
90	2923.5	33.5			0.279
91	2957.0	33.0			0.279
92	2990.0	33.1			0.284
93	3023.1	32.0			0.286
94	3055.1	32.9			0.286
95	3088.0	30.9			0.284
96	3118.9	33.0			0.275
97	3152.0	33.2			0.278
98	3185.2	31.1			0.300
99	3216.3	32.8			0.288
100	3249.2	32.7			0.286

Log Date:01-Aug-2017

Sheet: 2 of 4

CompanyChevron Oil & Gas
Well: Union Pacific 72x-31



A Case of Hole Wireline Company

Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
101	3281.9	33.7			0.273
102	3315.6	30.8			0.302
103	3346.4	32.8			0.288
104	3379.2	32.3			0.277
105	3411.4	33.4			0.278
106	3444.8	32.0			0.289
107	3476.8	31.1			0.291
108	3507.9	32.5			0.292
109	3540.4	32.6			0.284
110	3573.1	32.6			0.290
111	3605.7	32.9			0.286
112	3638.6	32.6			0.285
113	3671.2	33.3			0.279
114	3704.5	31.6			0.290
115	3736.1	31.1			0.289
116	3767.1	32.5			0.288
117	3799.6	32.4			0.286
118	3832.0	32.0			0.278
119	3864.0	32.7			0.282
120	3896.7	32.4			0.288
121	3929.1	33.4			0.285
122	3962.4	32.9			0.292
123	3995.3	32.9			0.276
124	4028.2	32.3			0.279
125	4060.5	30.6			0.310

Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
126	4091.1	31.4			0.306
127	4122.5	32.4			0.285
128	4154.9	31.6			0.298
129	4186.5	33.0			0.270
130	4219.5	33.4			0.267
131	4252.9	30.4			0.304
132	4283.3	31.4			0.275
133	4314.6	33.1			0.270
134	4347.8	32.7			0.281
135	4380.5	32.7			0.280
136	4413.2	33.5			0.274
137	4446.7	32.5			0.269
138	4479.1	32.5			0.268
139	4511.6	33.4			0.272
140	4545.0	32.2			0.275
141	4577.2	29.3			0.280
142	4606.5	32.8			0.277
143	4639.3	30.4			0.278
144	4669.7	32.8			0.283
145	4702.5	32.6			0.280
146	4735.1	30.1			0.288
147	4765.2	32.8			0.280
148	4798.0	30.9			0.279
149	4828.9	31.7			0.280
150	4860.6	32.4			0.285

Log Date:01-Aug-2017

Sheet: 3 of 4

Company: Chevron Oil & Gas
Well: Union Pacific 72x-31



Joint			Remaining Wall		
No.	Depth	Length	0.000	0.500	in
151	4893.0	25.8			0.291
152	4918.8	32.4			0.286
153	4951.2	32.6			0.284
154	4983.9	31.8			0.289
155	5015.6	32.5			0.284
156	5048.1	33.6			0.285
157	5081.7	32.5			0.281
158	5114.3	31.4			0.292
159	5145.7	31.6			0.286
160	5177.3	32.4			0.288
161	5209.7	31.4			0.275
162	5241.2	32.4			0.289
163	5273.5	32.6			0.285
164	5306.1	31.8			0.281
165	5337.9	31.6			0.278
166	5369.5	32.8			0.283

[illegible]

167	5402.4	32.4		0.282
168	5434.8	30.2		0.264
169	5465.0	37.0		0.261
170	5502.0	33.2		0.274
171	5535.2	0.0		0.000

Log Date:01-Aug-2017

Sheet: 4 of 4



Main Pass 5" = 100'

Database File c:\warrior\data\chevron_union_pacific_72x_31_mac\chevron_union_pacific_72x_31_mac8.db
Dataset Pathname passM
Presentation Format 8msc7gr
Dataset Creation Wed Aug 02 22:06:16 2017
Charted by Depth in Feet scaled 1:240

Gamma Ray		
0	(GAPI)	150
9	Casing Collars	-1
PTANN		

Casing Image

Nominal Thickness

Average ID

1.875 R10 (in) 4.375

0 (in) 1

6.25 (in) 7.25

1.25 R20 (in) 3.75

Minimum Thickness

Maximum ID

0.625 R30 (in) 3.125

0 (in) 1

7.25 (in) 6.25

0 R40 (in) 2.5

Maximum Thickness

Minimum ID

0 (in) 1

6.25 (in) 7.25

Average Thickness

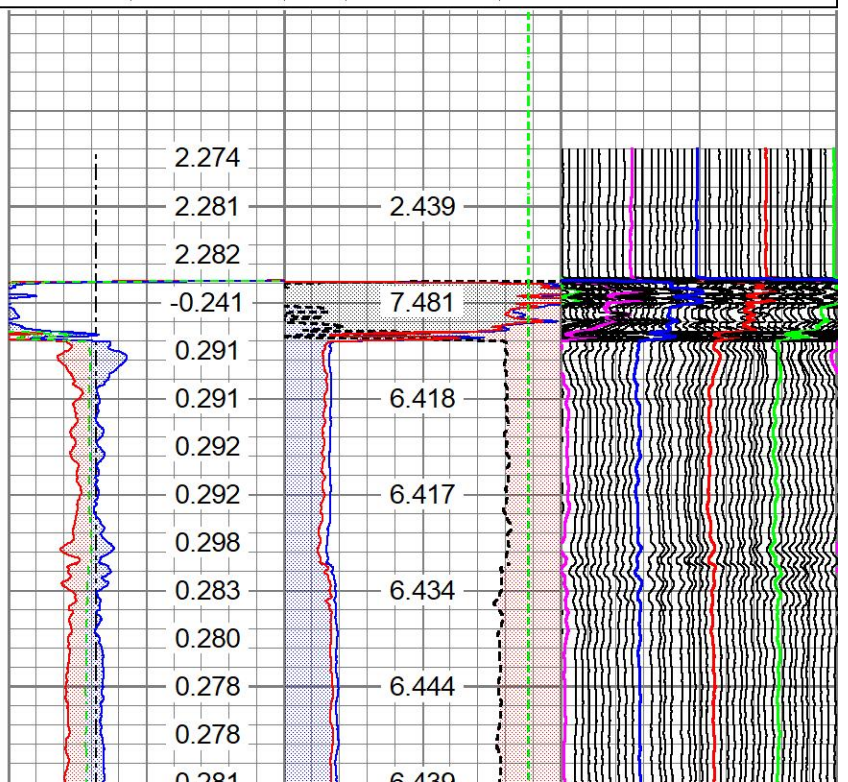
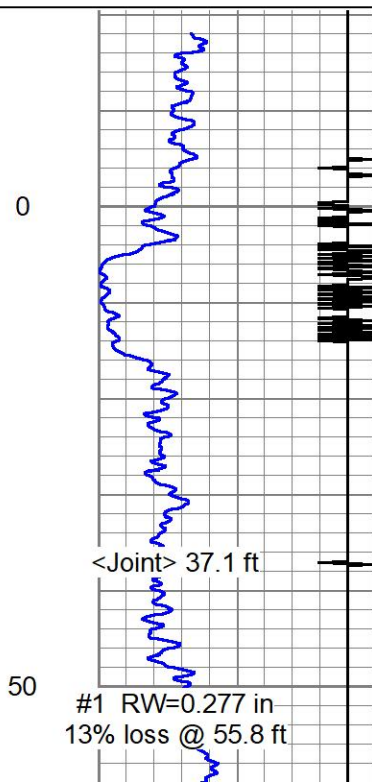
Nominal ID

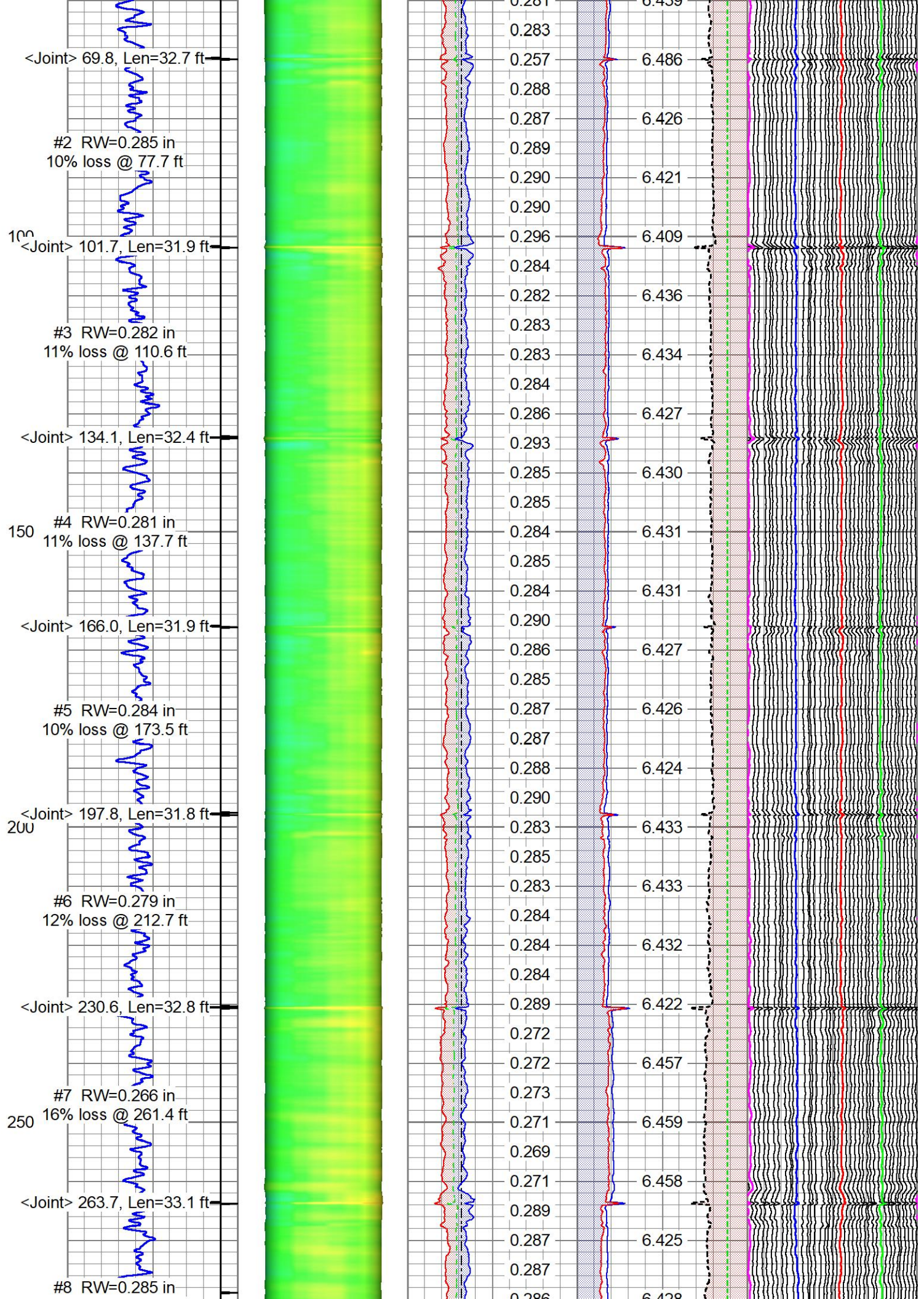
0 (in) 1

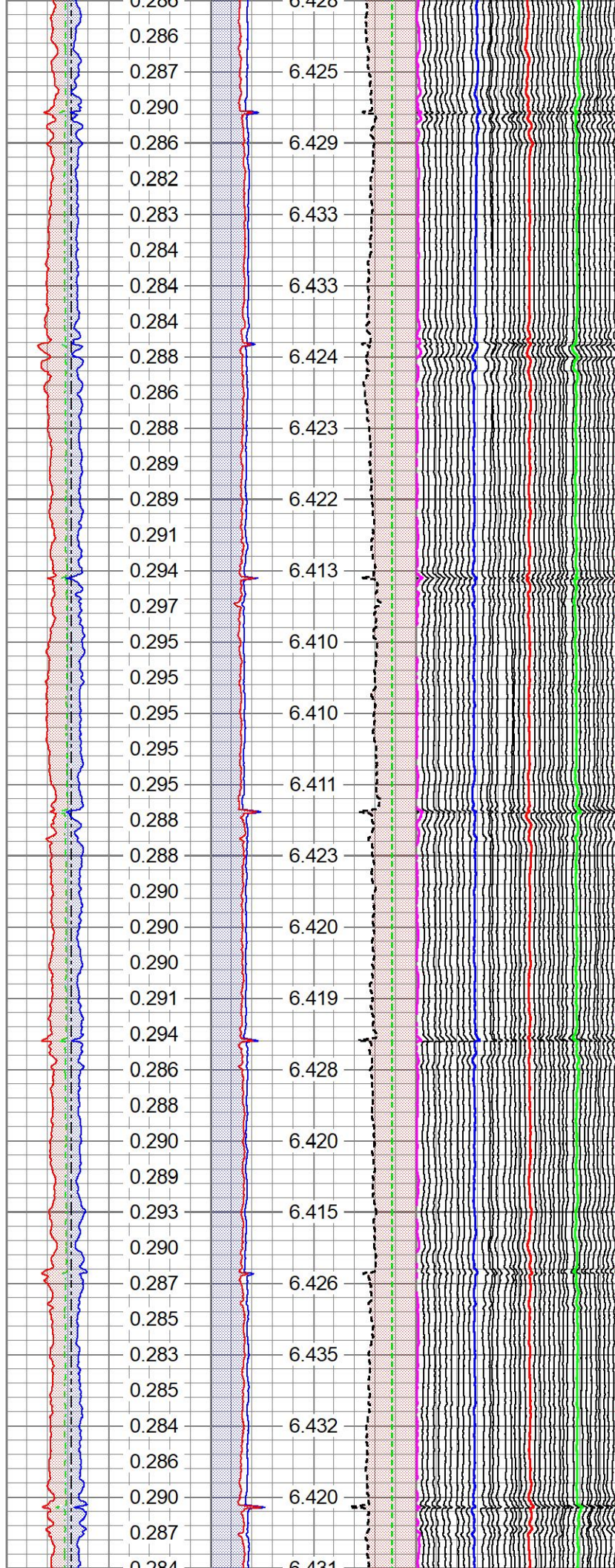
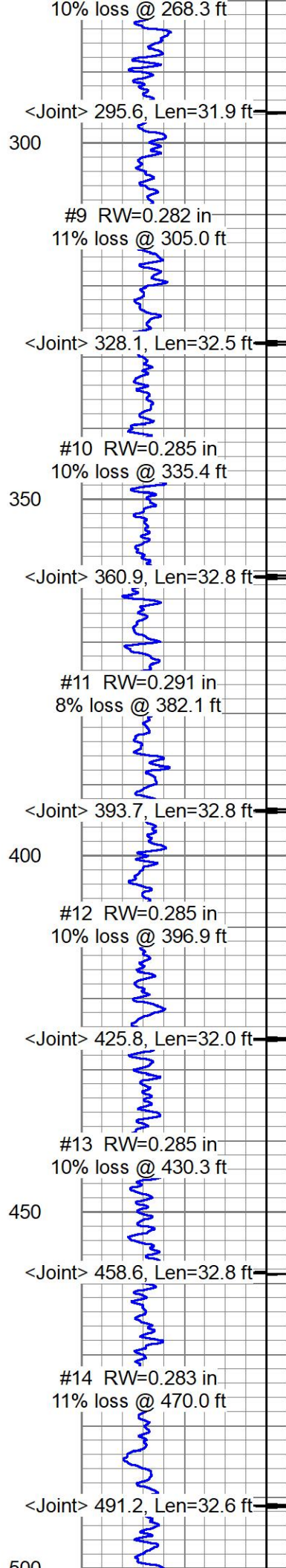
7.25 (in) 6.25

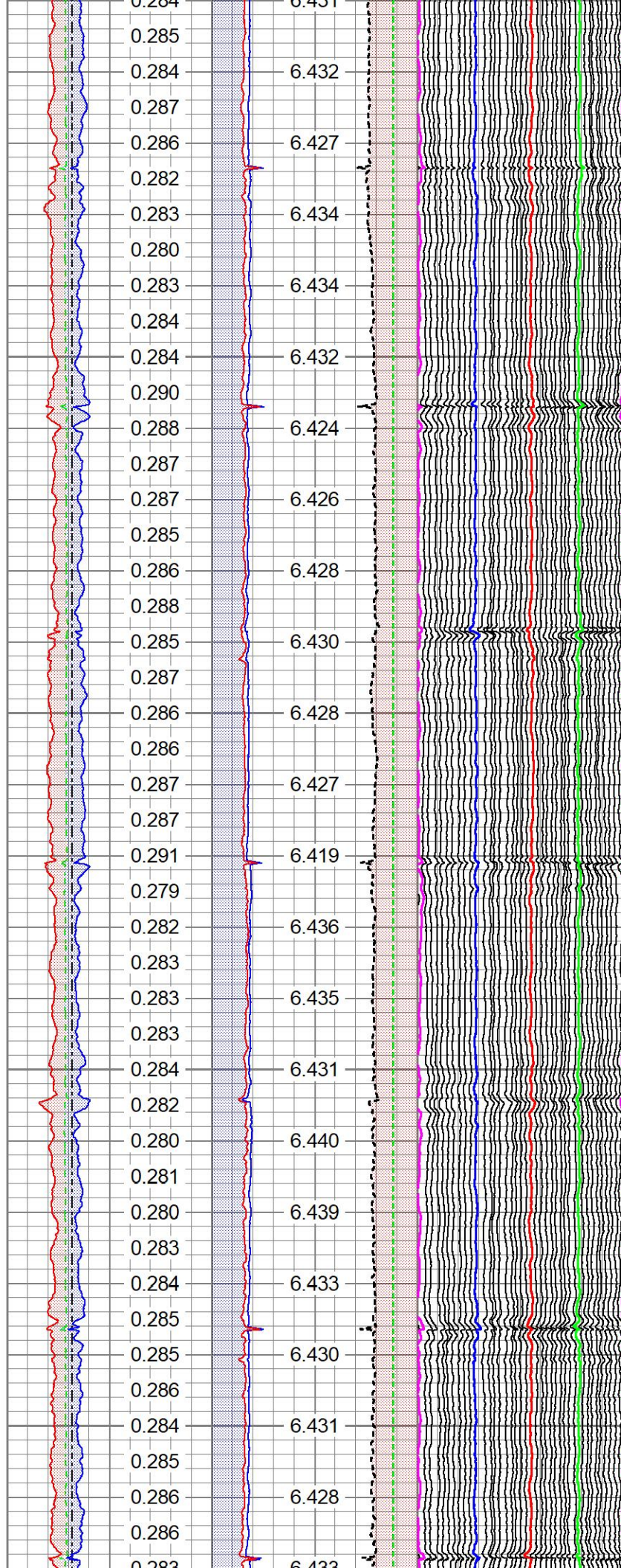
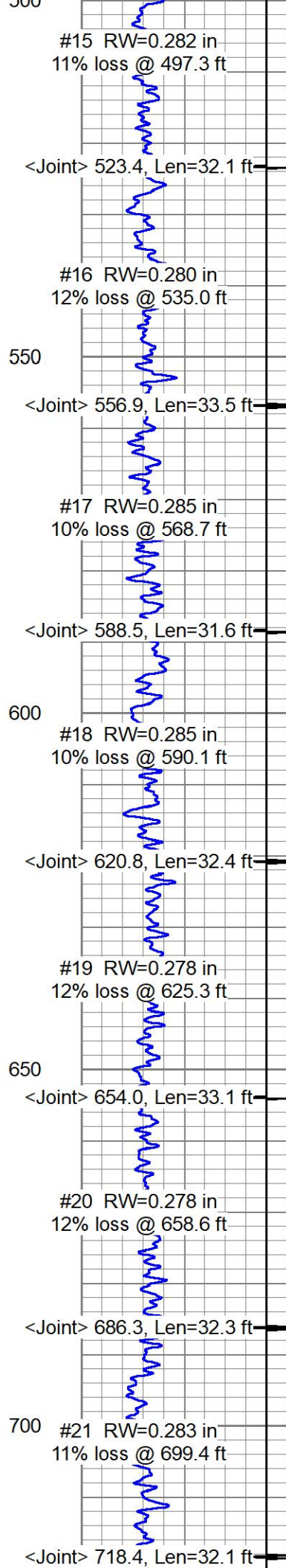
AVTK (in)

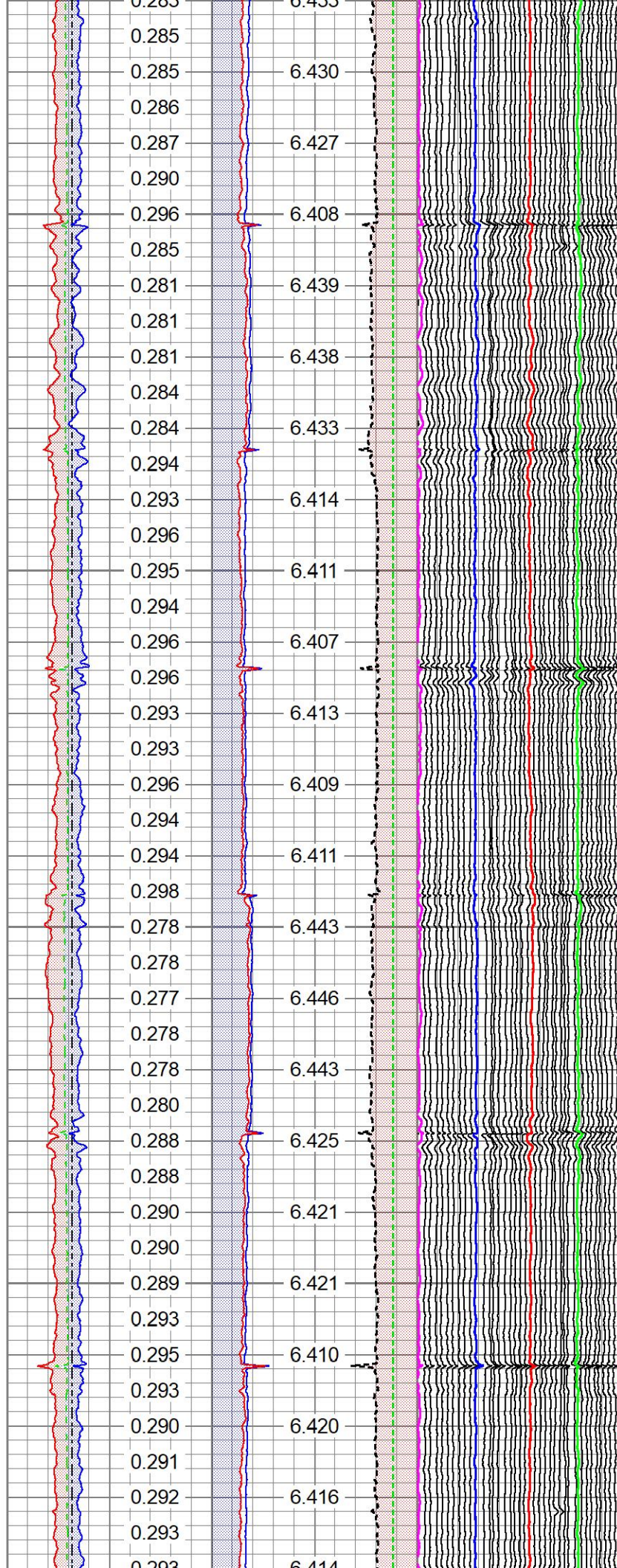
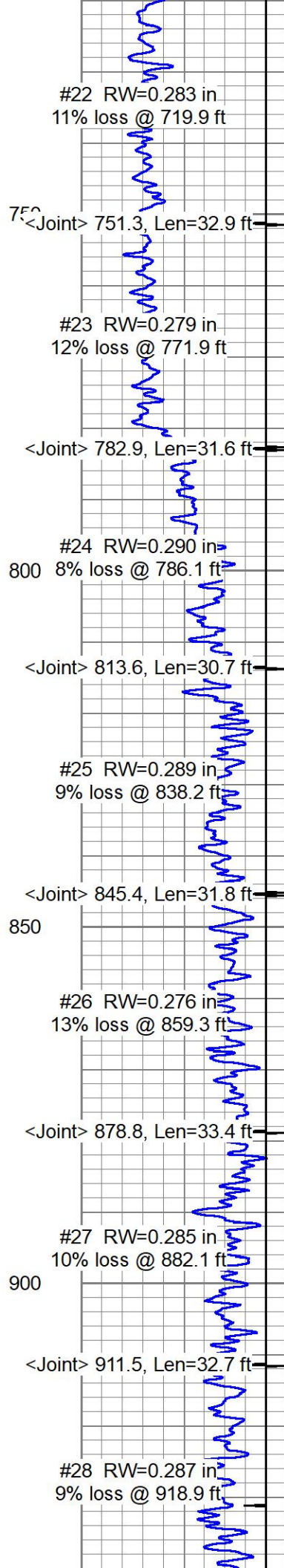
IDAV (in)

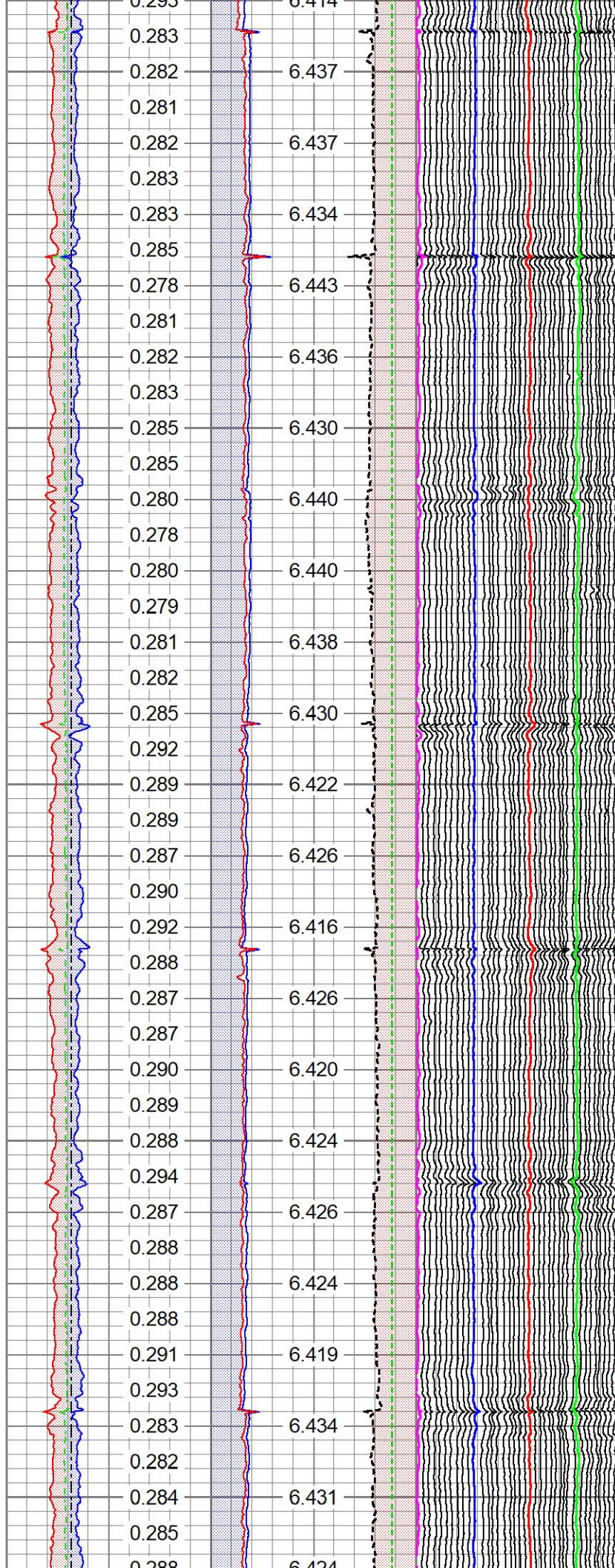
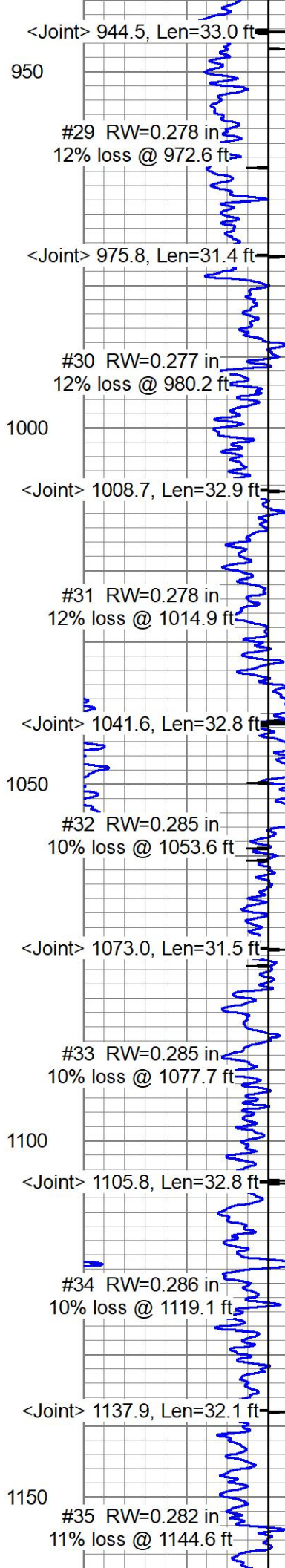


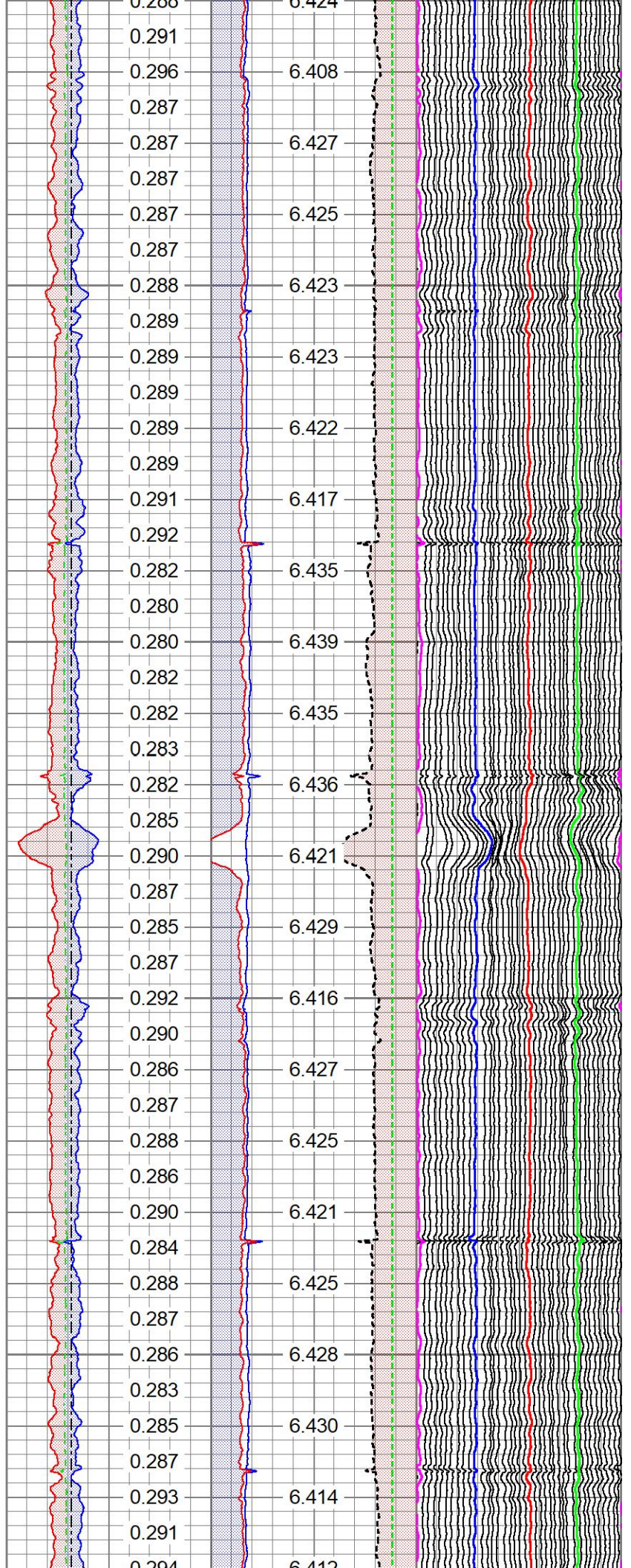
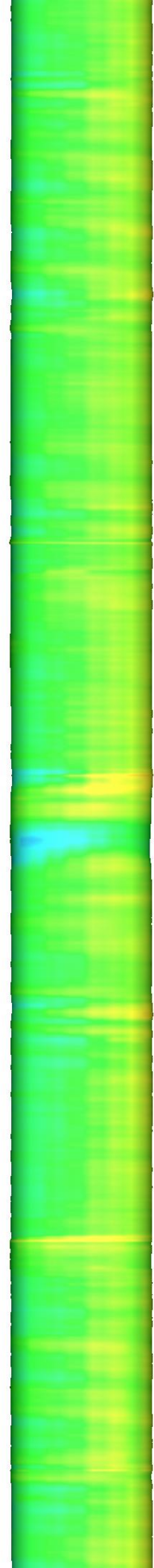
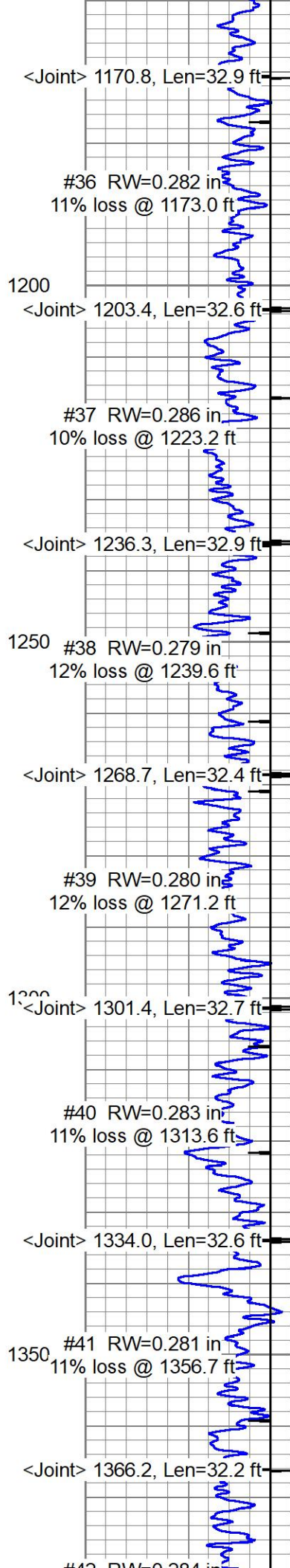


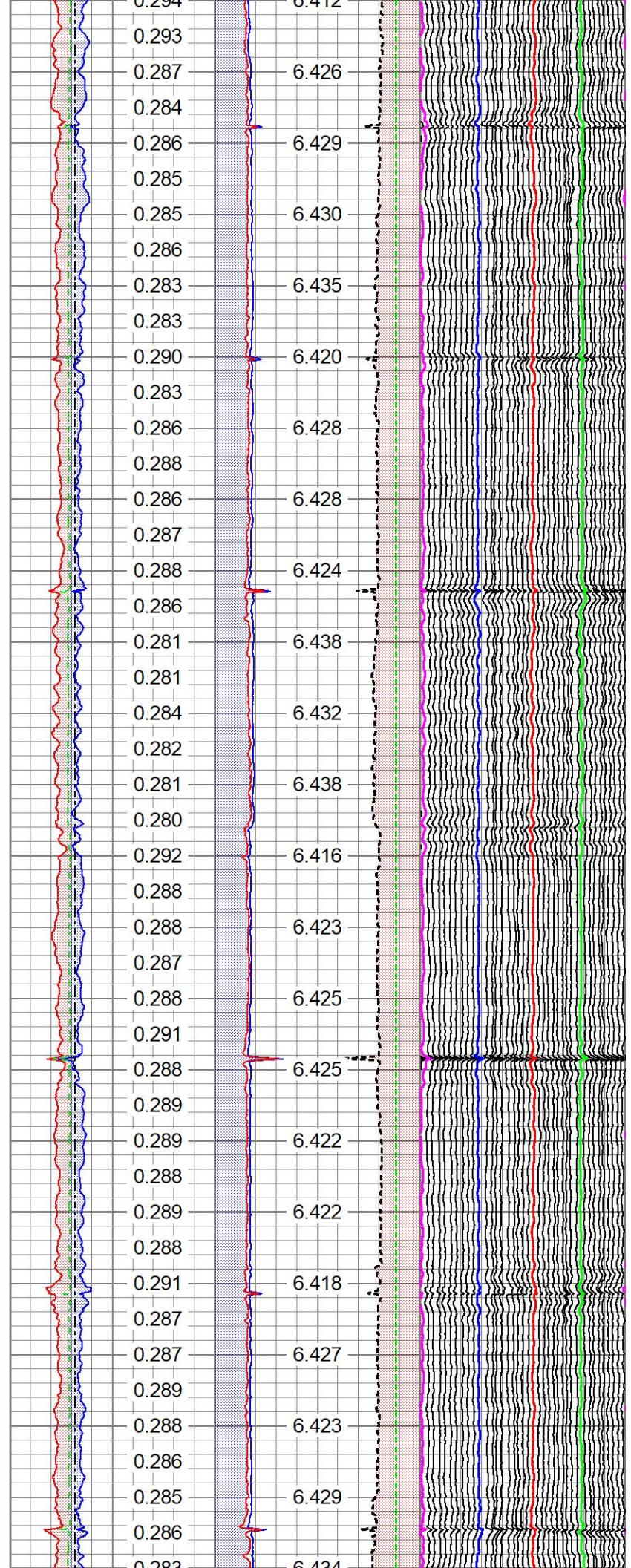
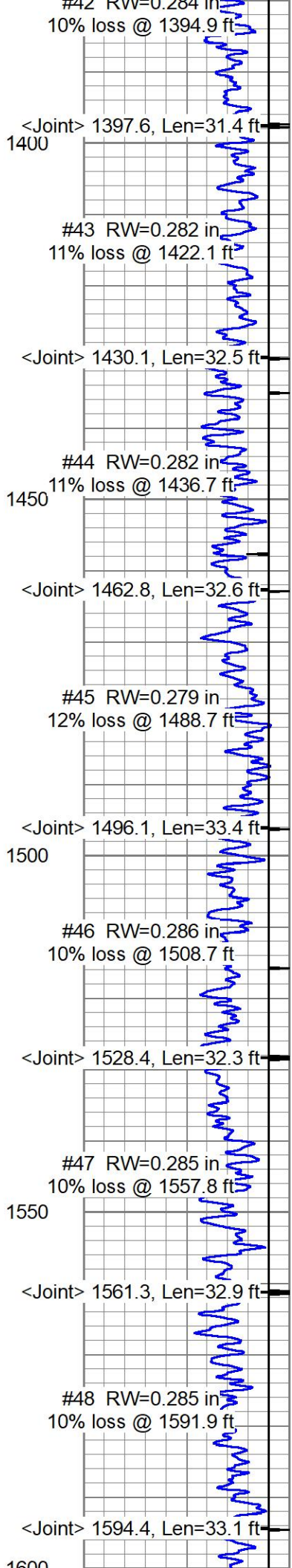


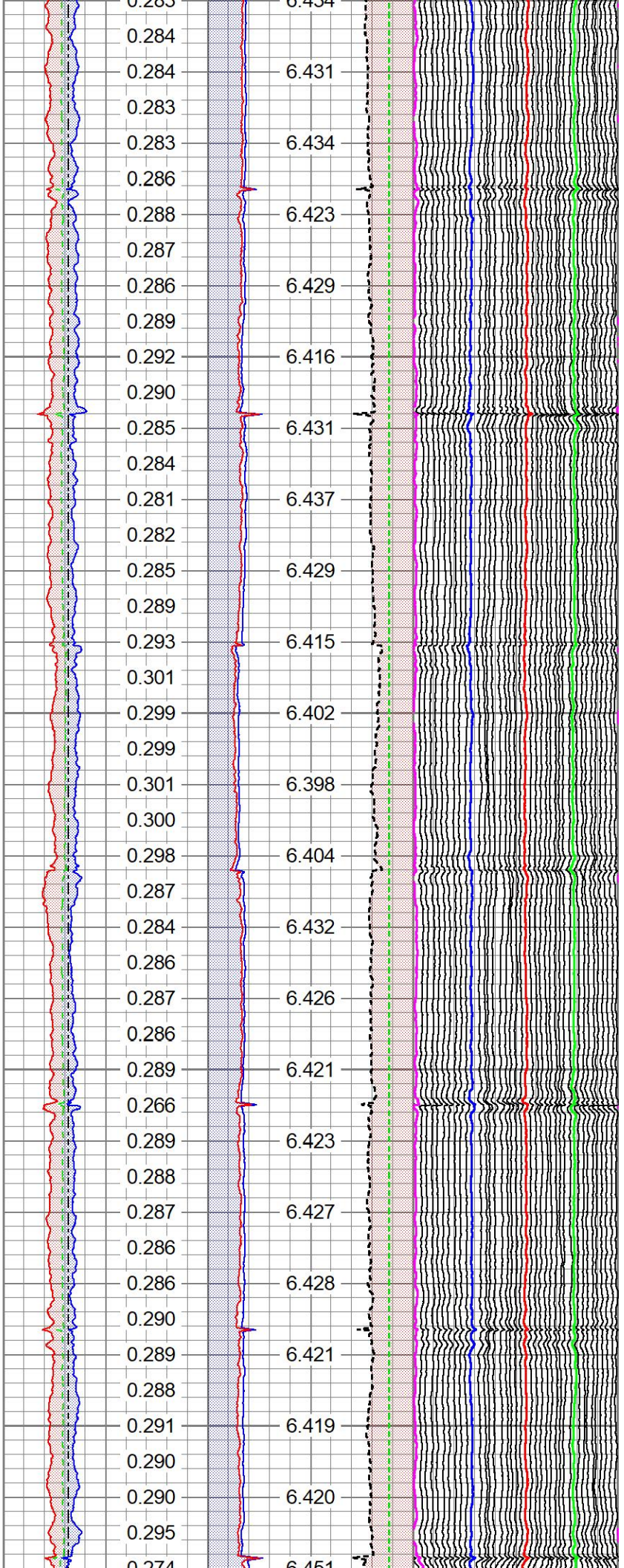
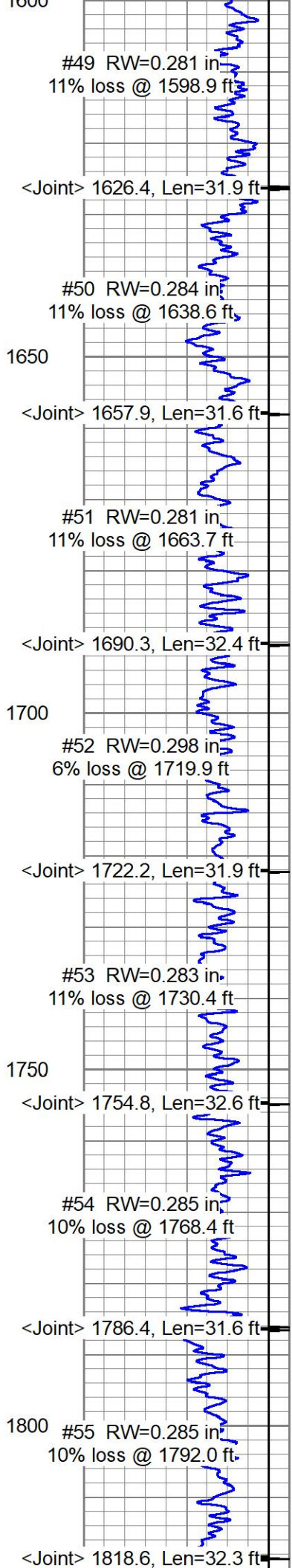


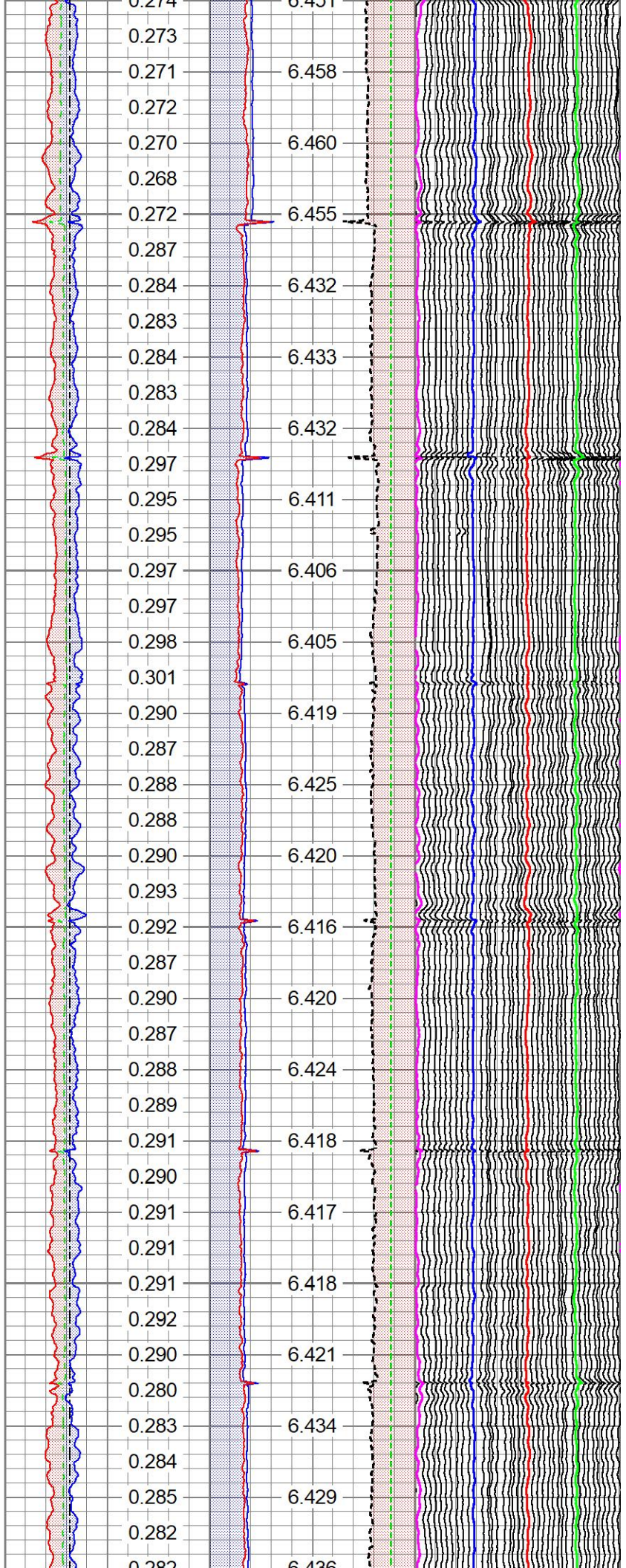
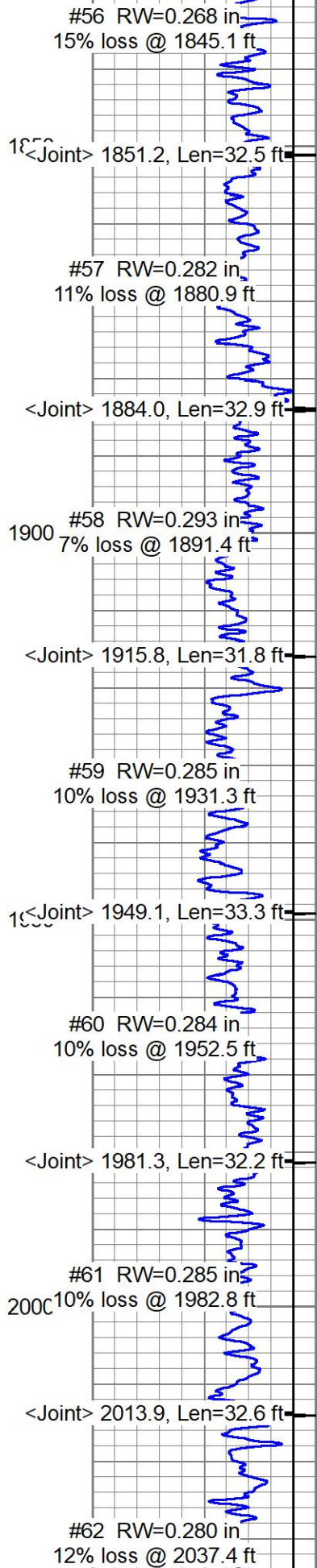












<Joint> 2047.5, Len=33.6 ft
2050

#63 RW=0.279 in.
12% loss @ 2071.2 ft

<Joint> 2080.9, Len=33.5 ft

#64 RW=0.284 in.
10% loss @ 2085.7 ft
2100

<Joint> 2109.8, Len=28.9 ft

#65 RW=0.282 in.
11% loss @ 2119.9 ft

<Joint> 2141.7, Len=31.9 ft

#66 RW=0.291 in.
8% loss @ 2151.6 ft
2150

<Joint> 2173.4, Len=31.7 ft

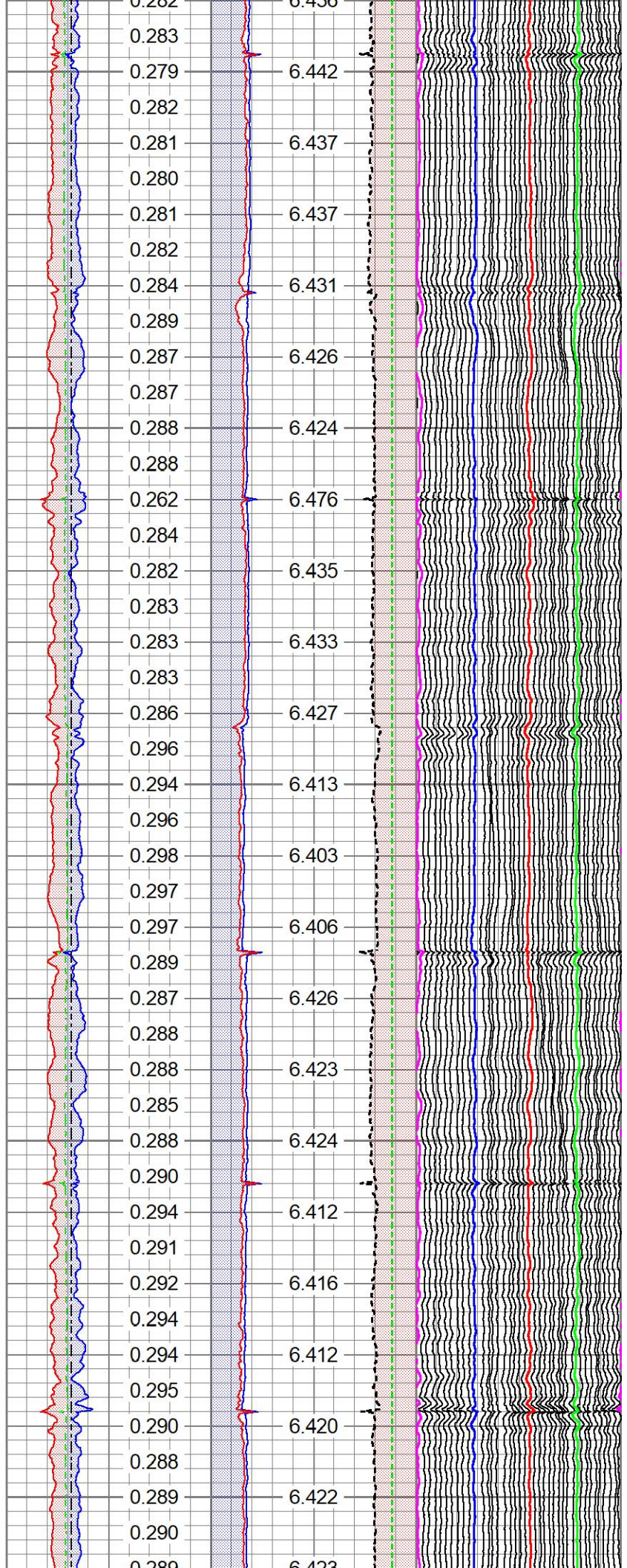
#67 RW=0.285 in.
10% loss @ 2194.8 ft

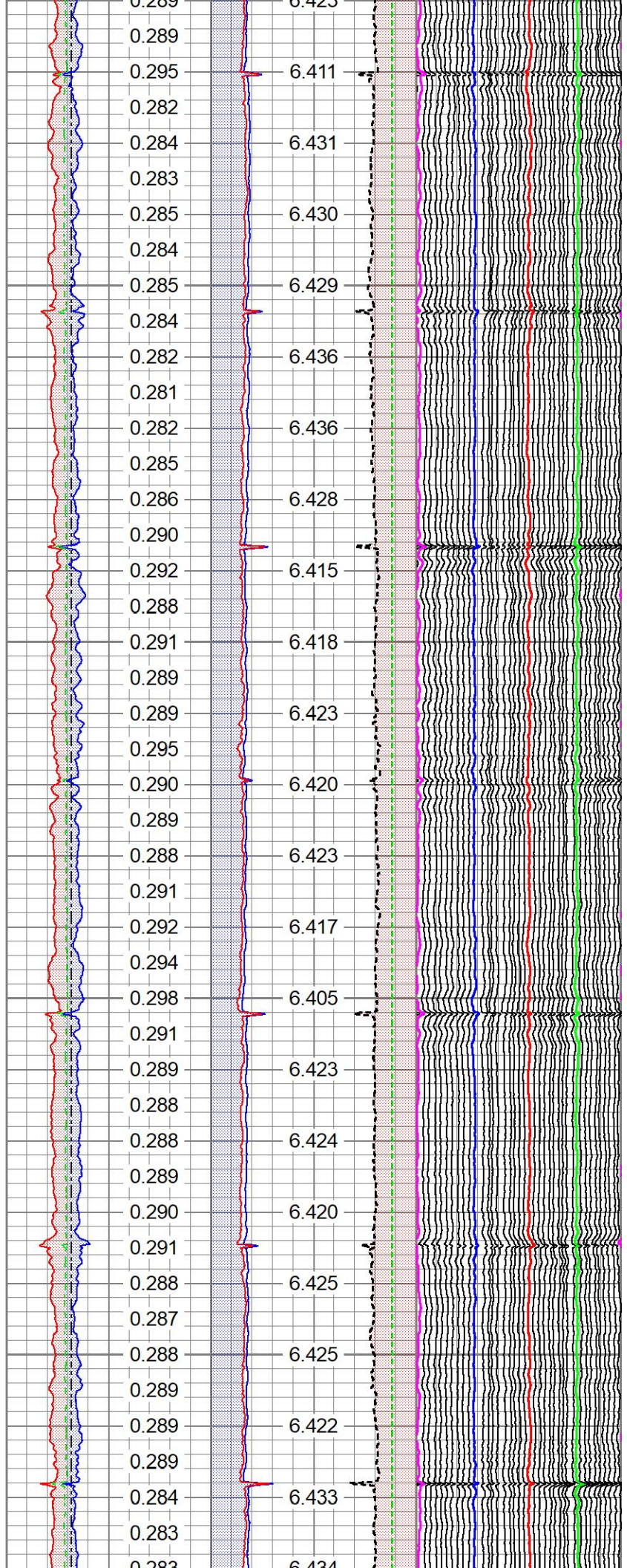
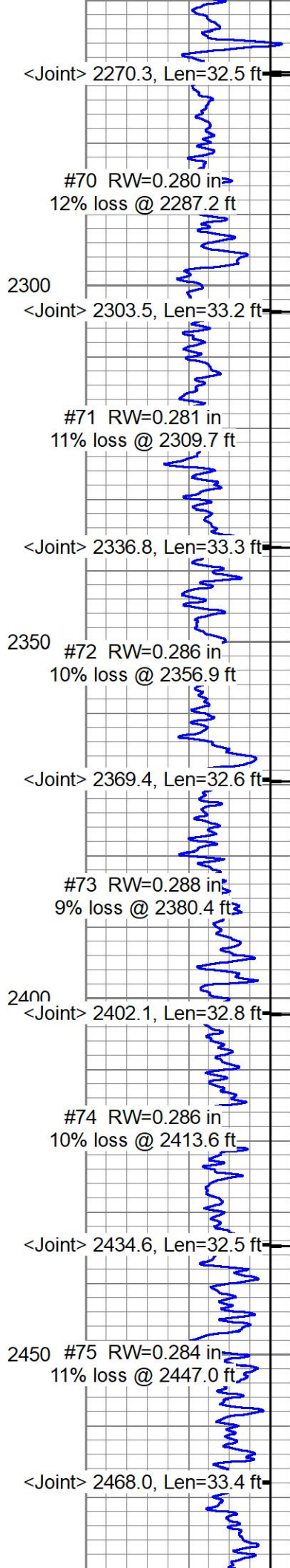
<Joint> 2205.8, Len=32.4 ft
2200

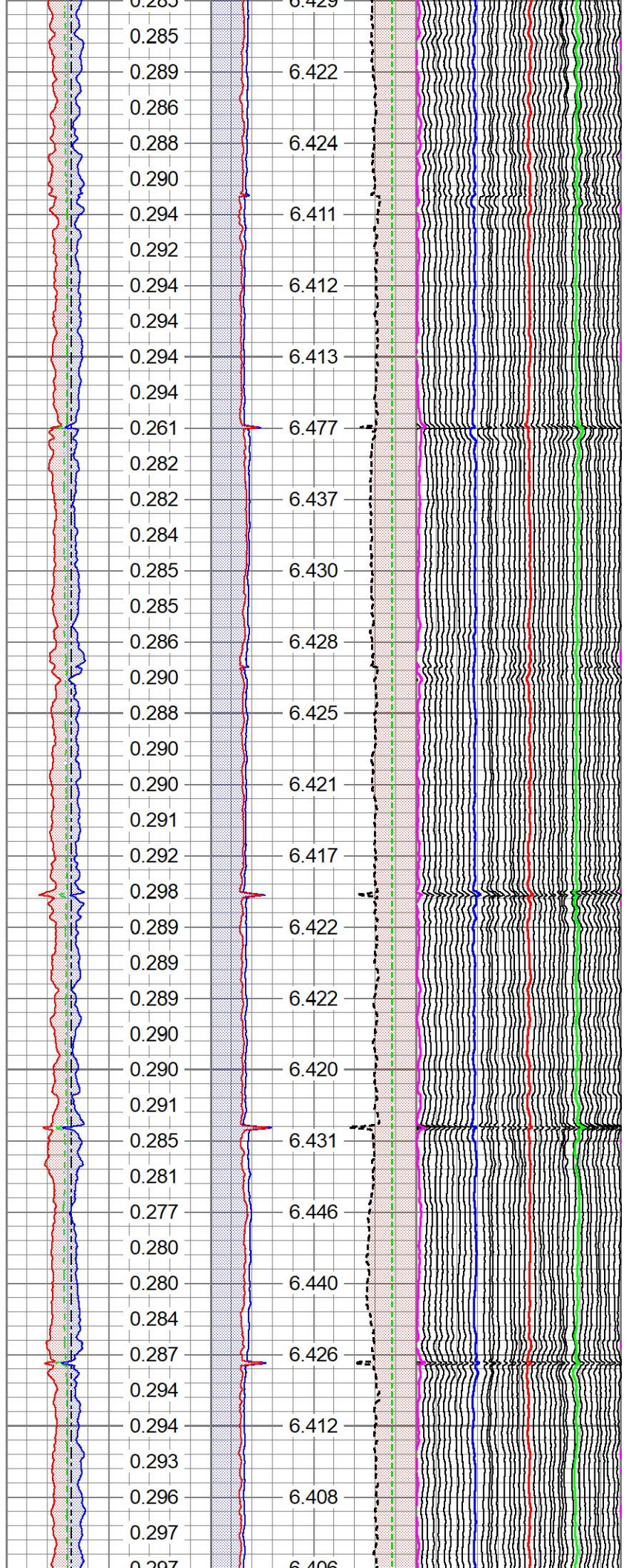
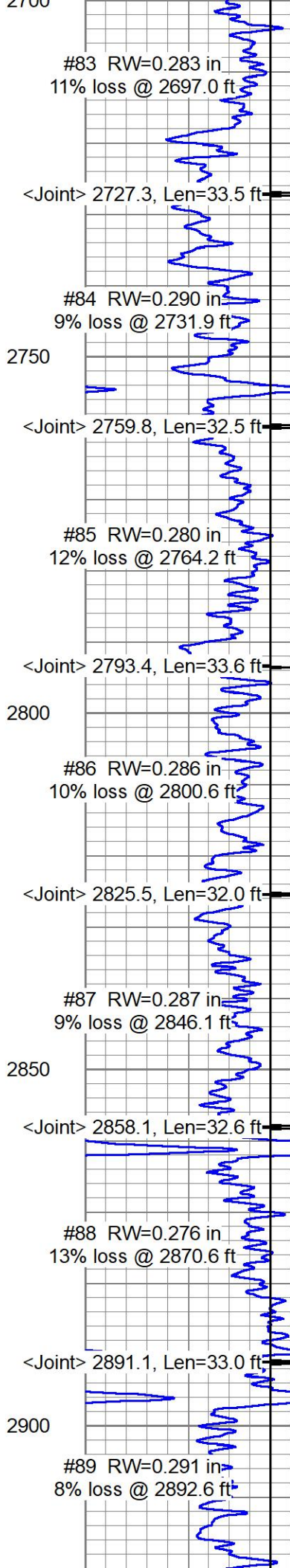
#68 RW=0.288 in.
9% loss @ 2212.6 ft

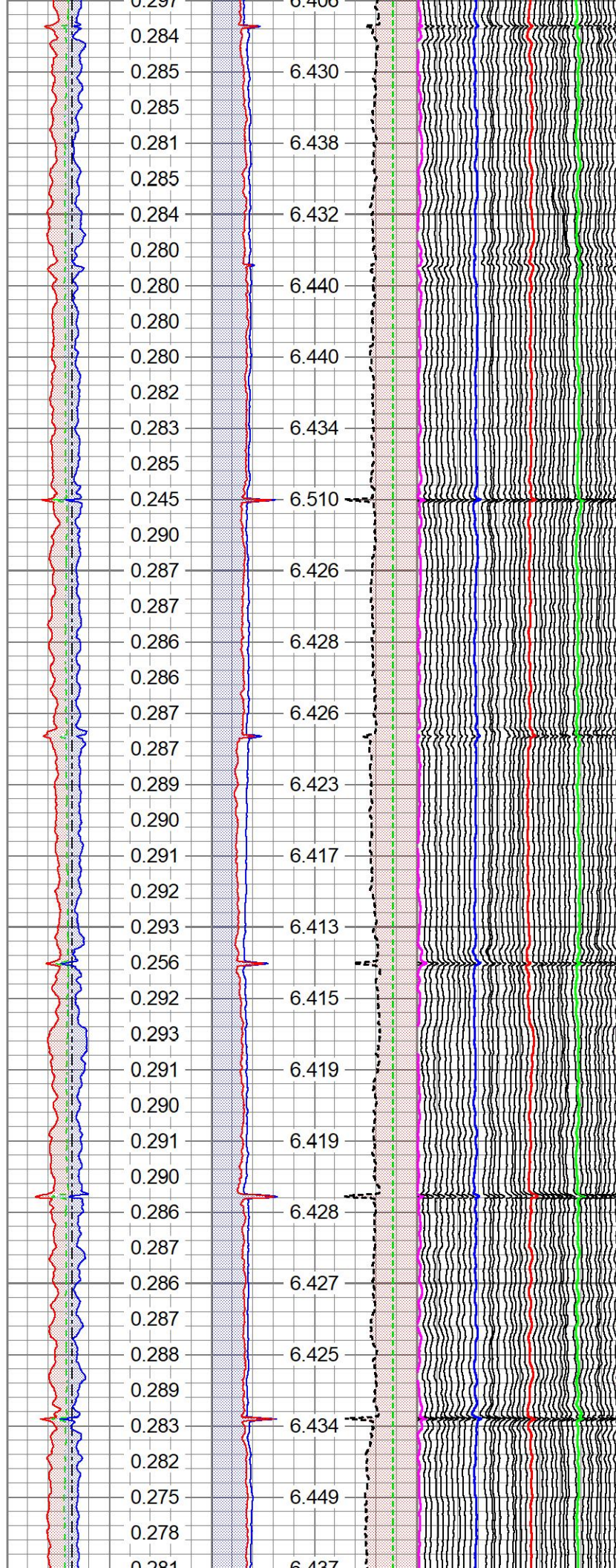
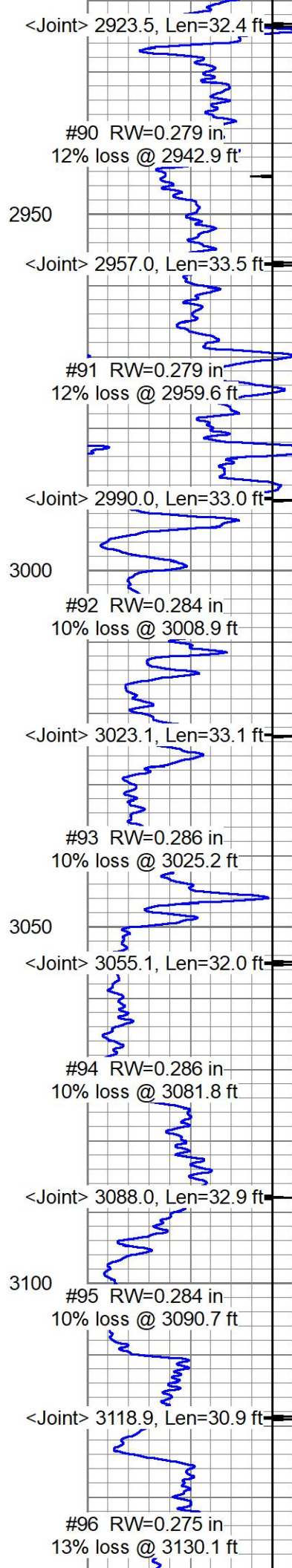
<Joint> 2237.9, Len=32.0 ft

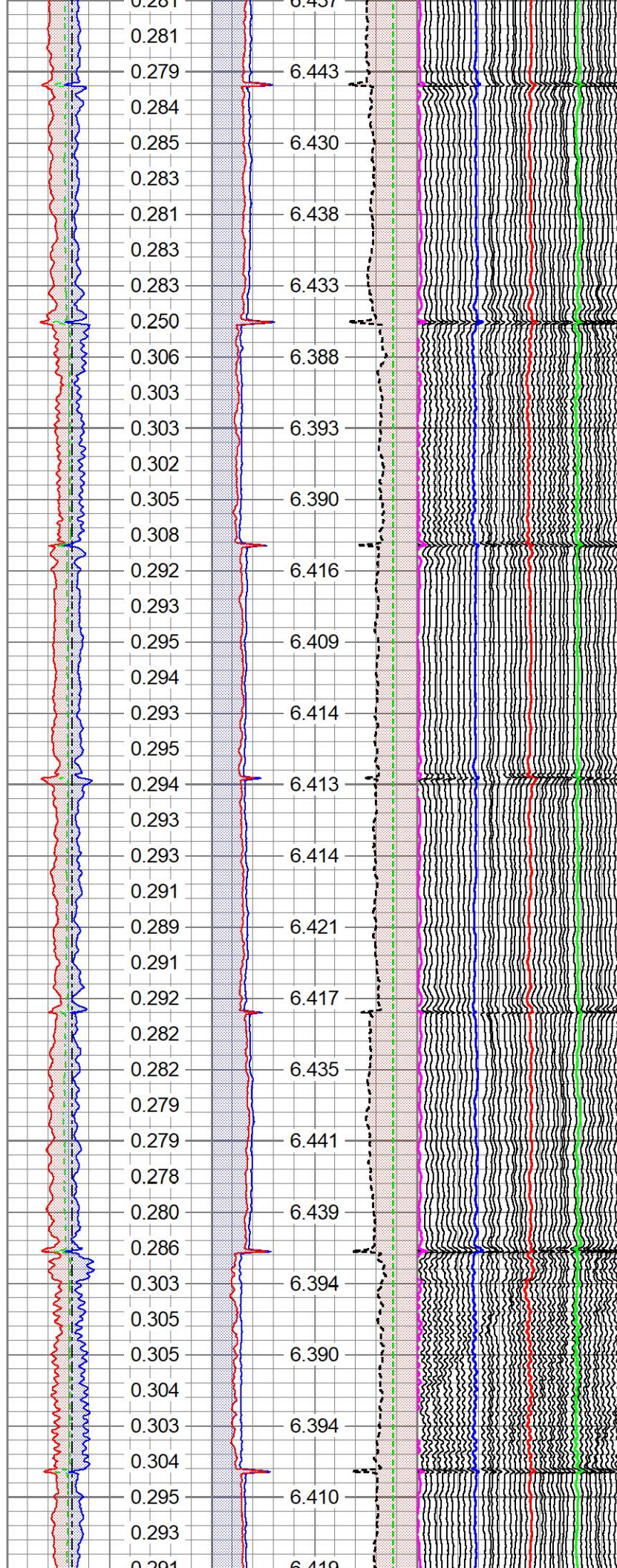
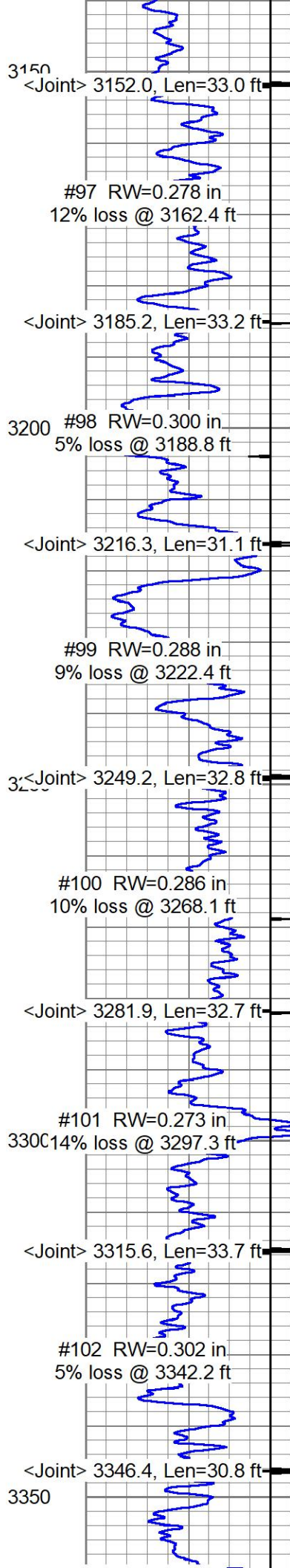
#69 RW=0.285 in.
10% loss @ 2242.2 ft
2250

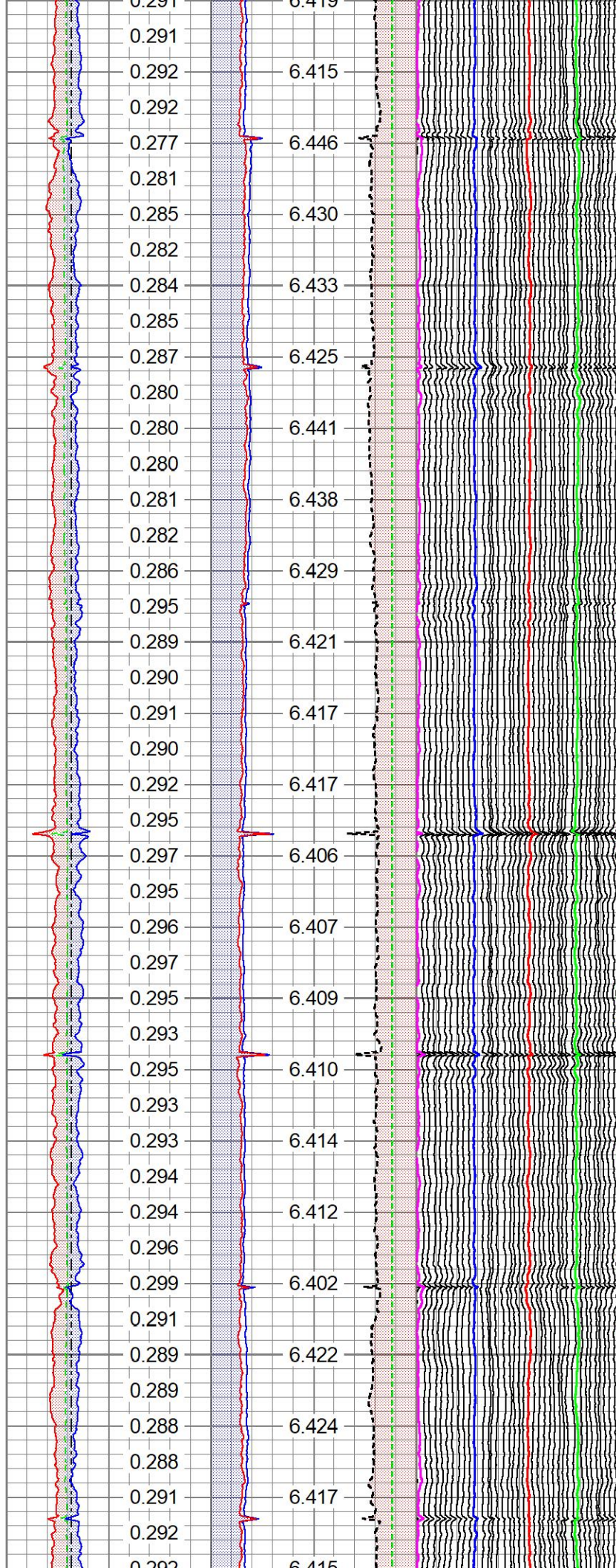
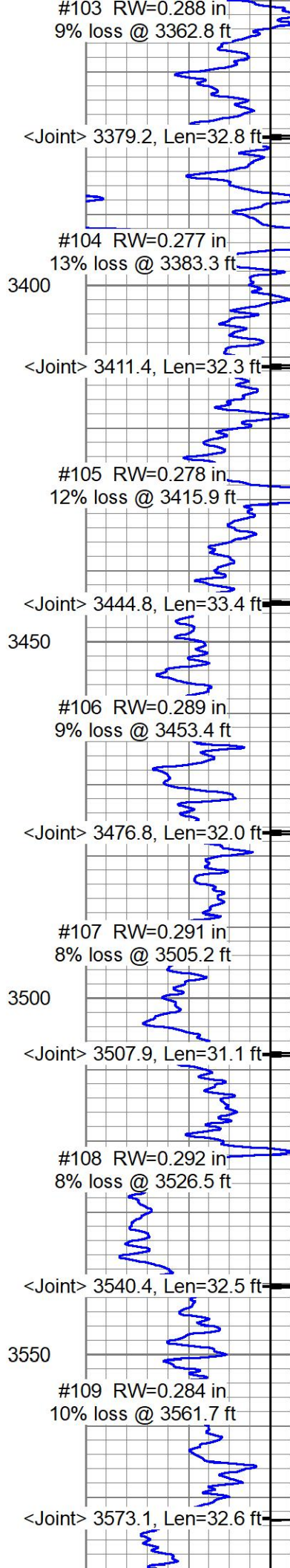


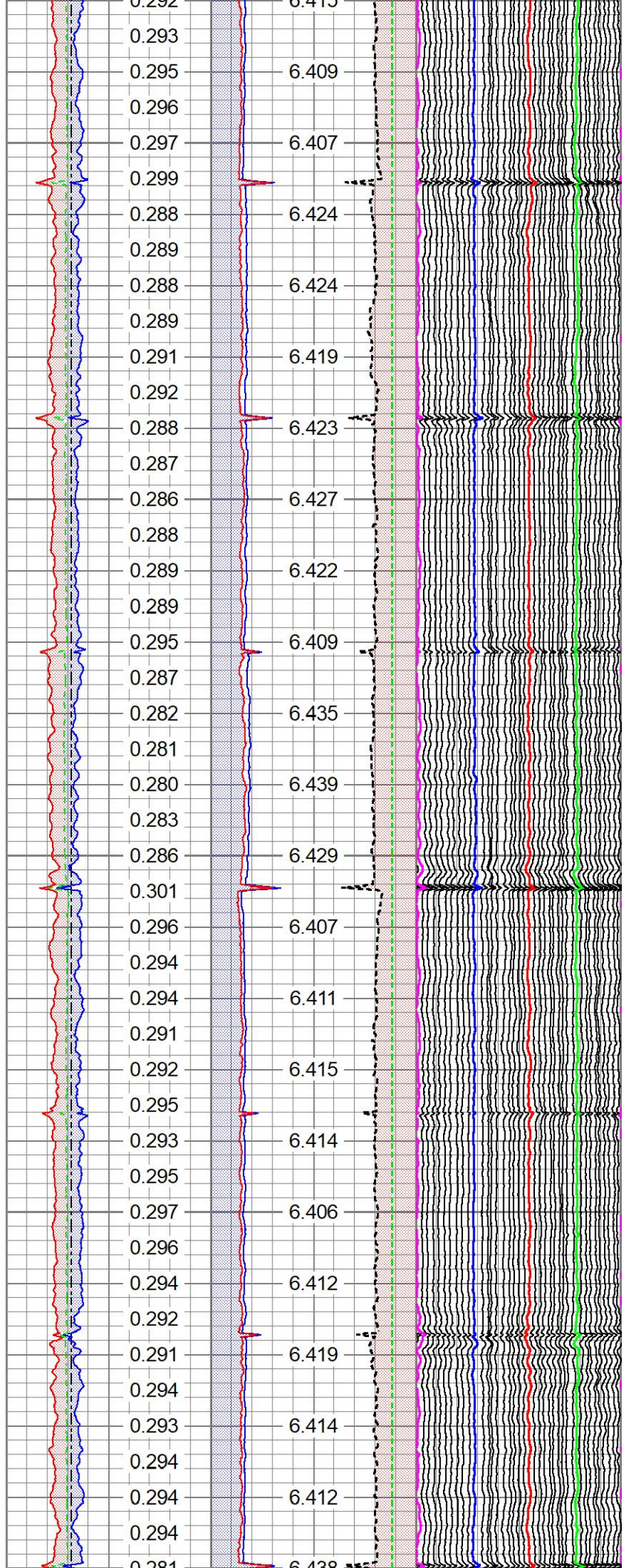
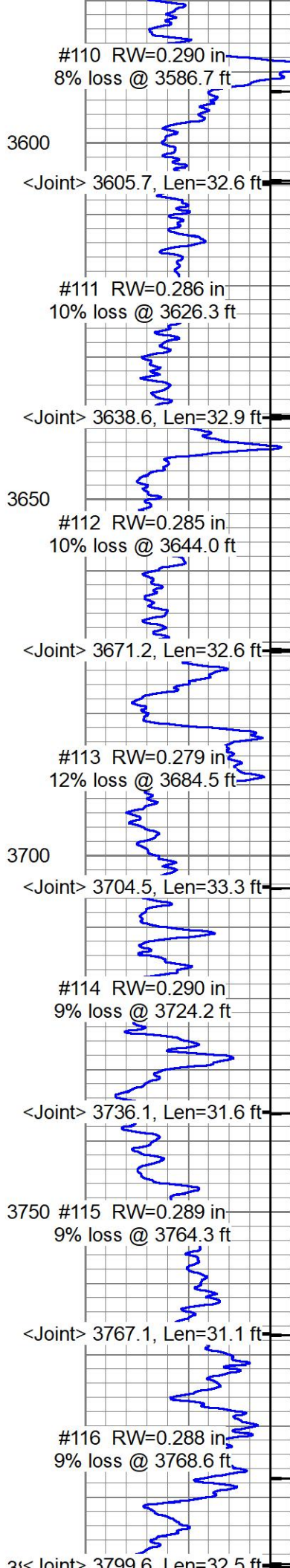


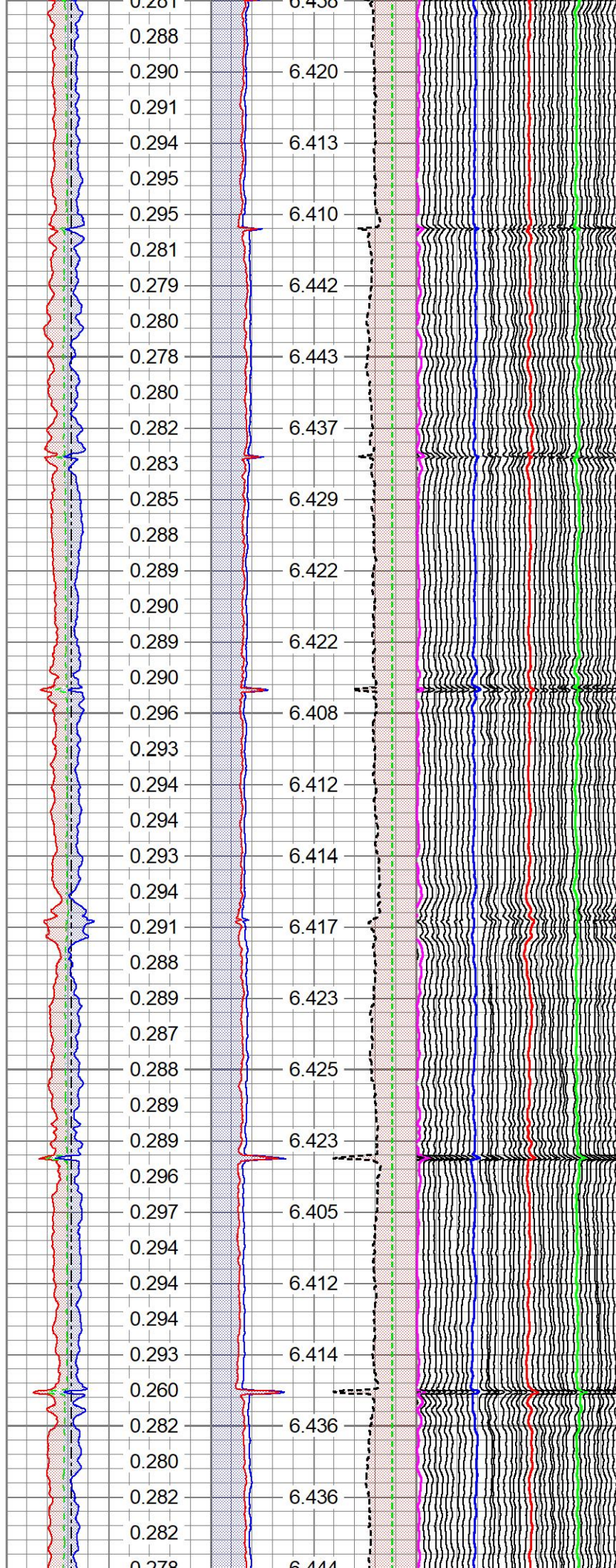
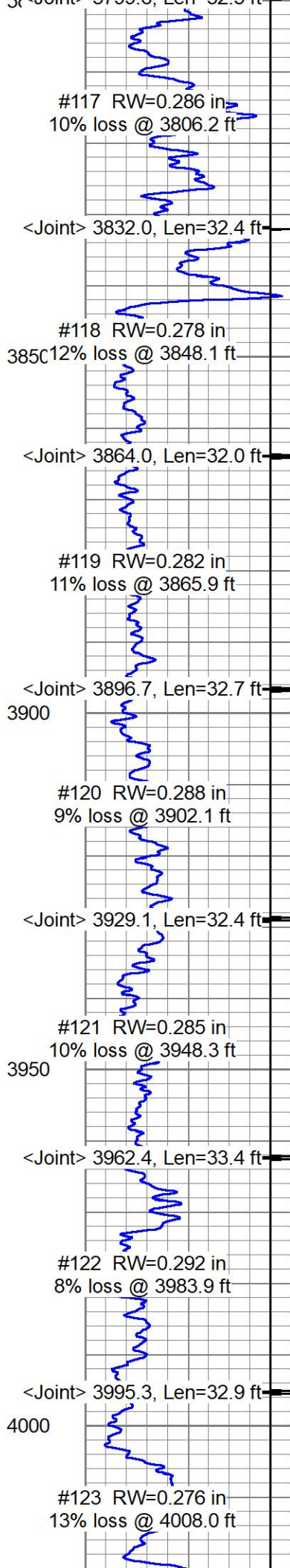


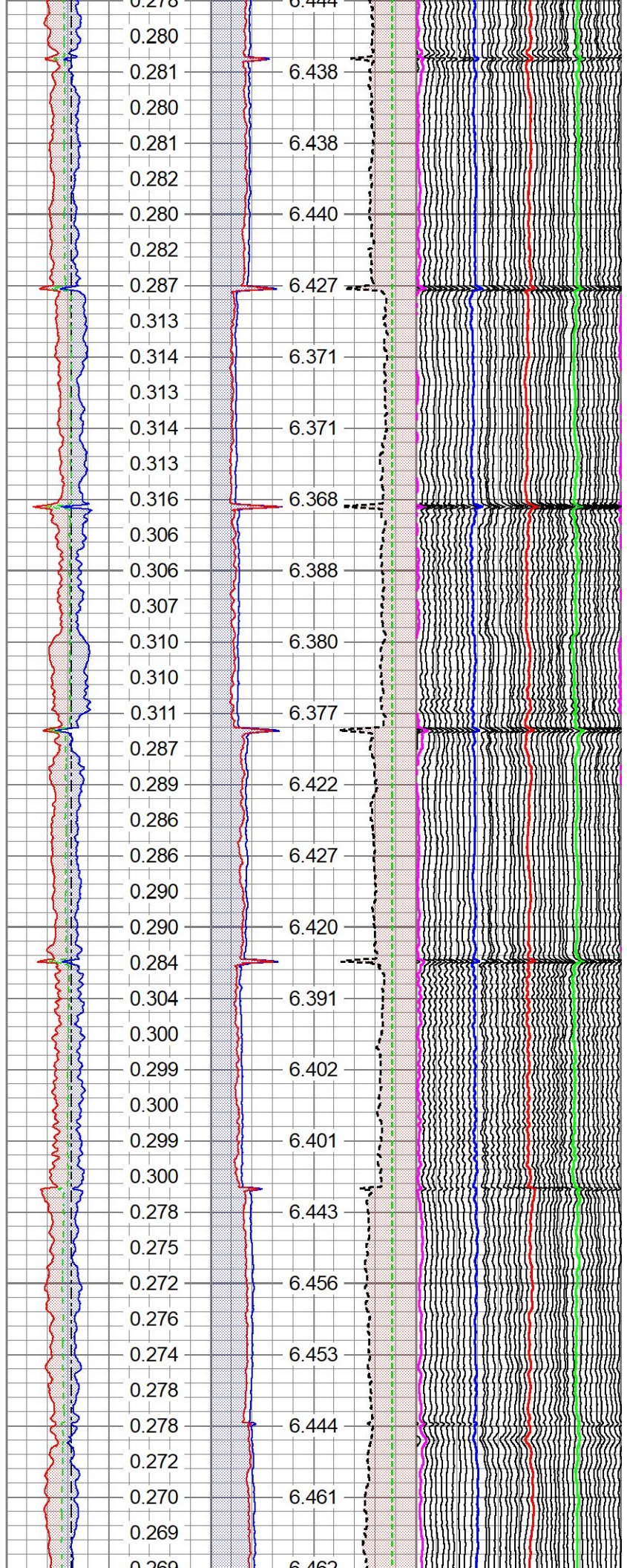
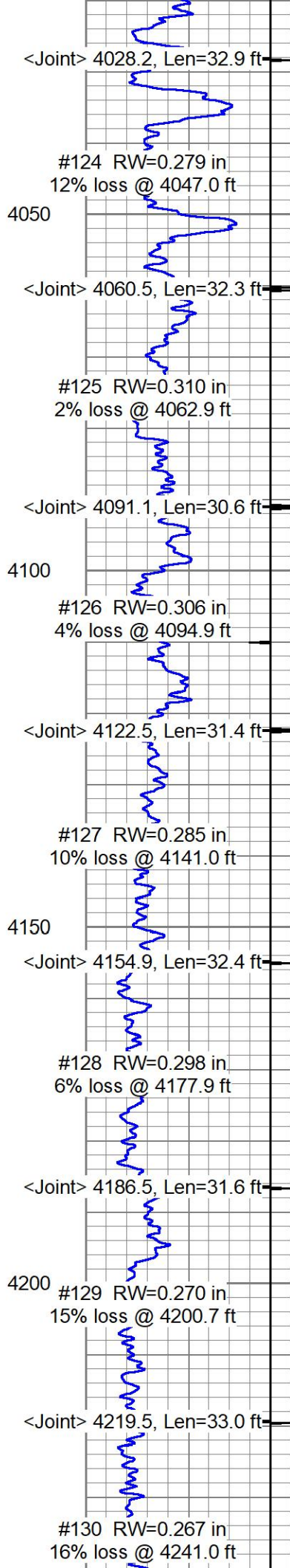


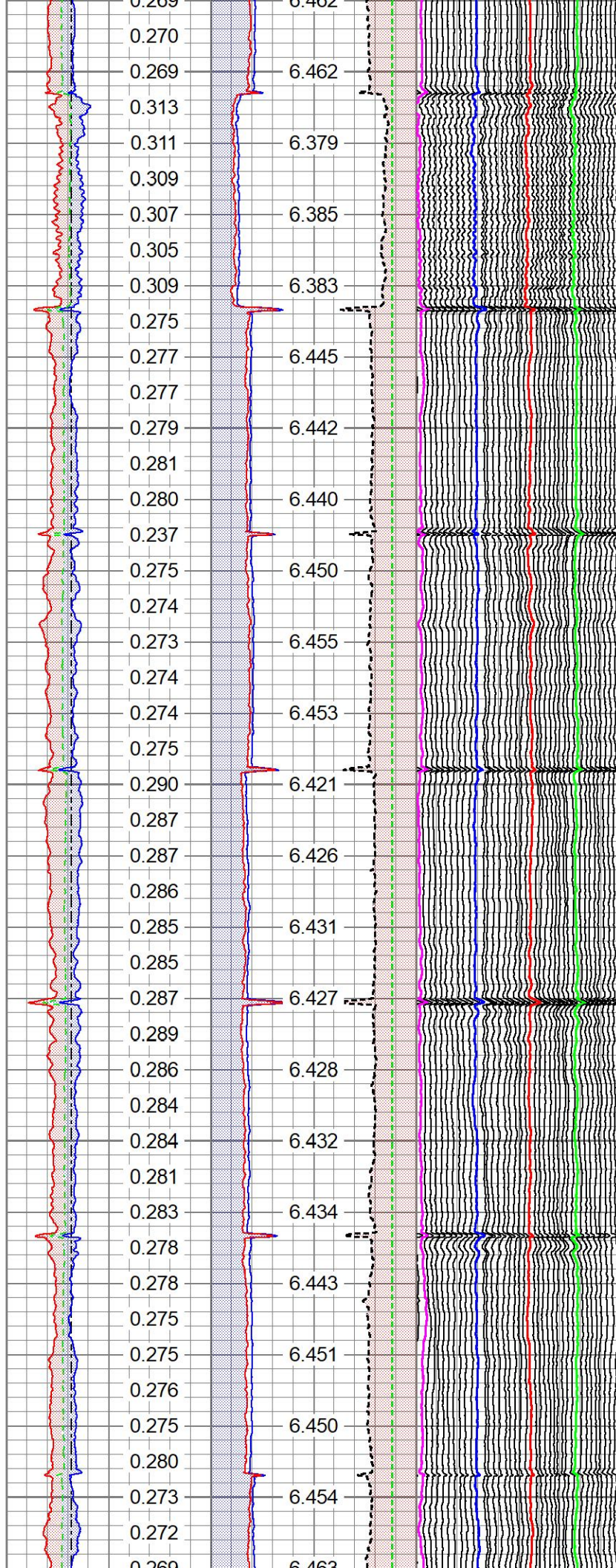
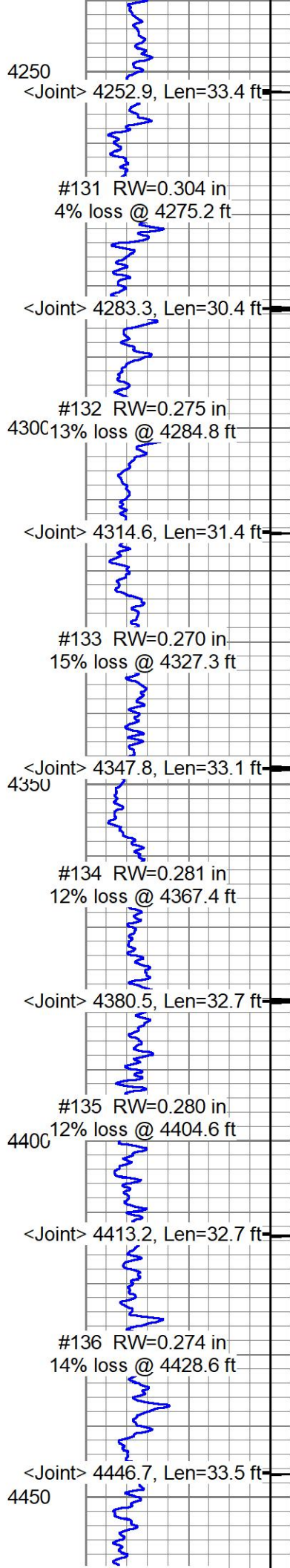


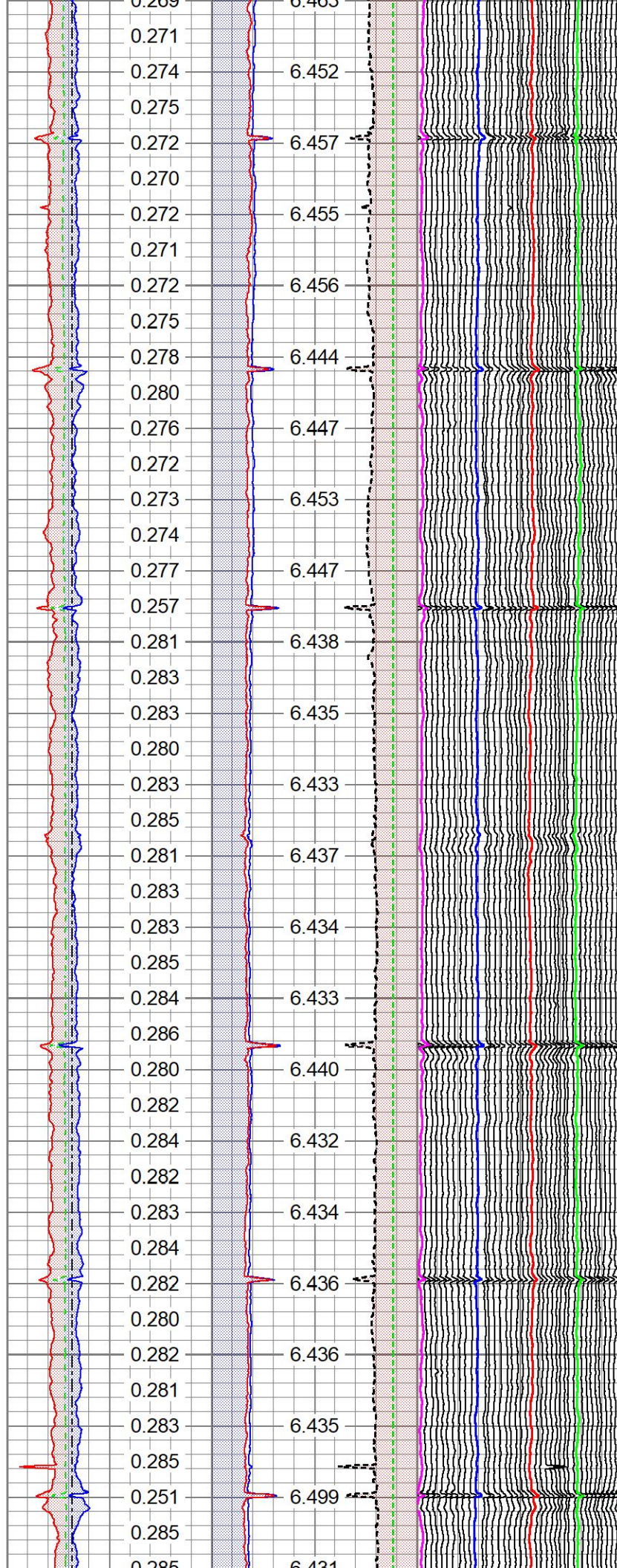
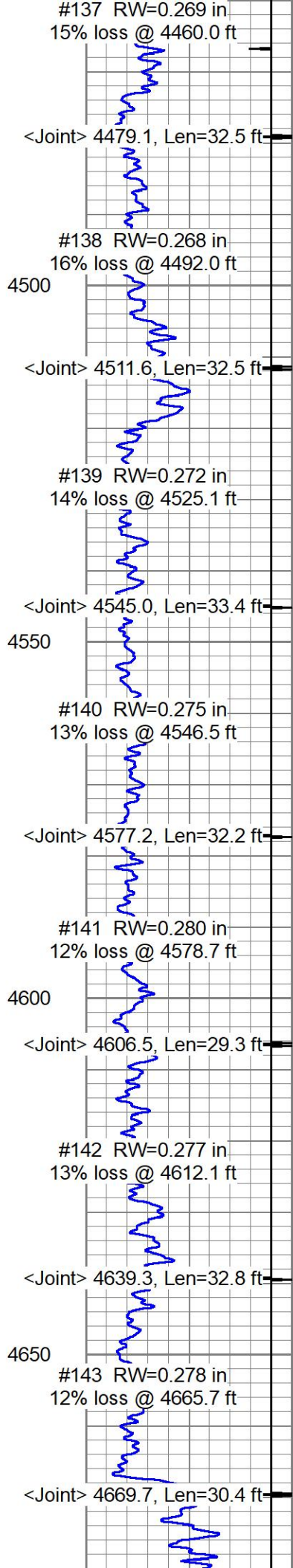


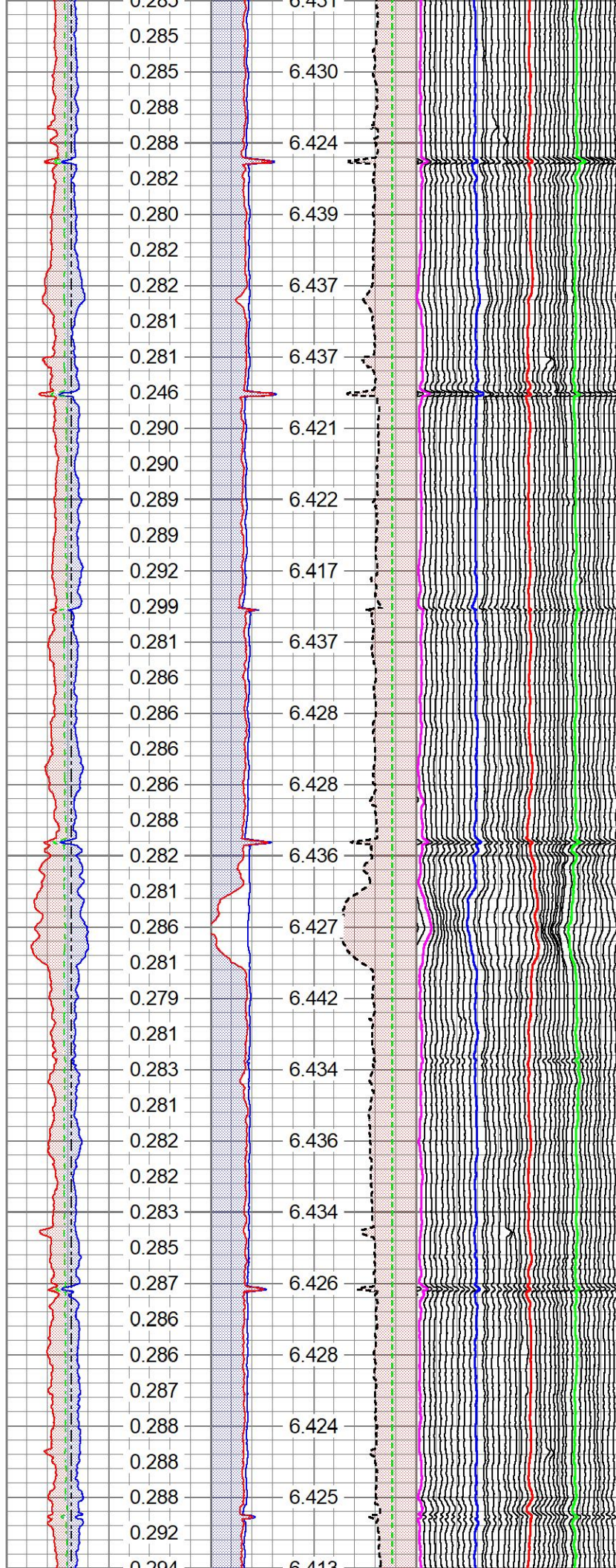
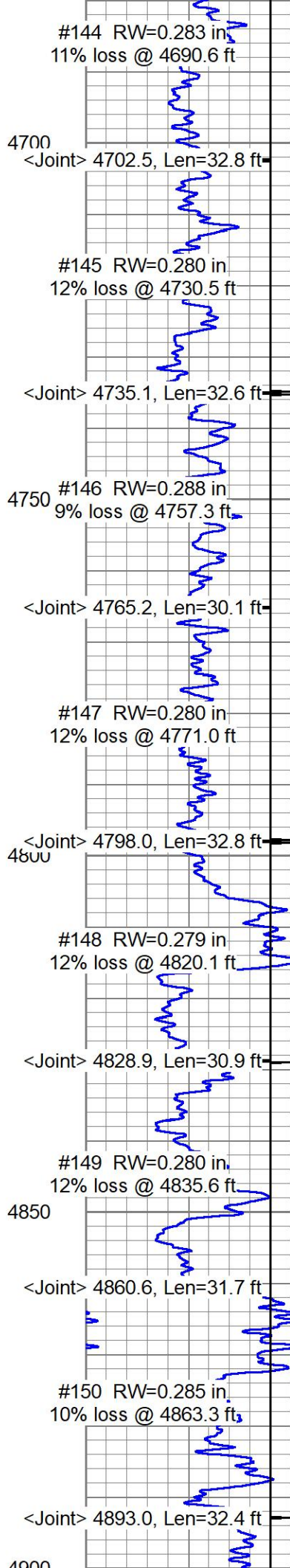


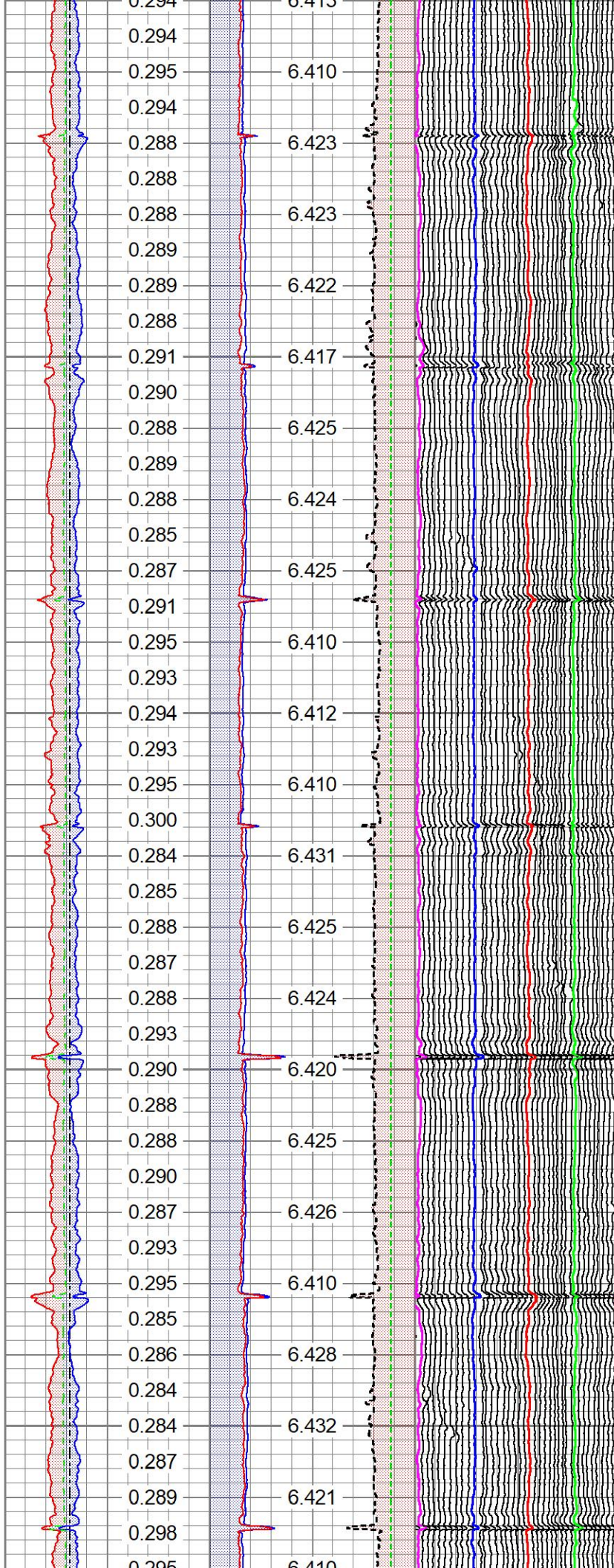
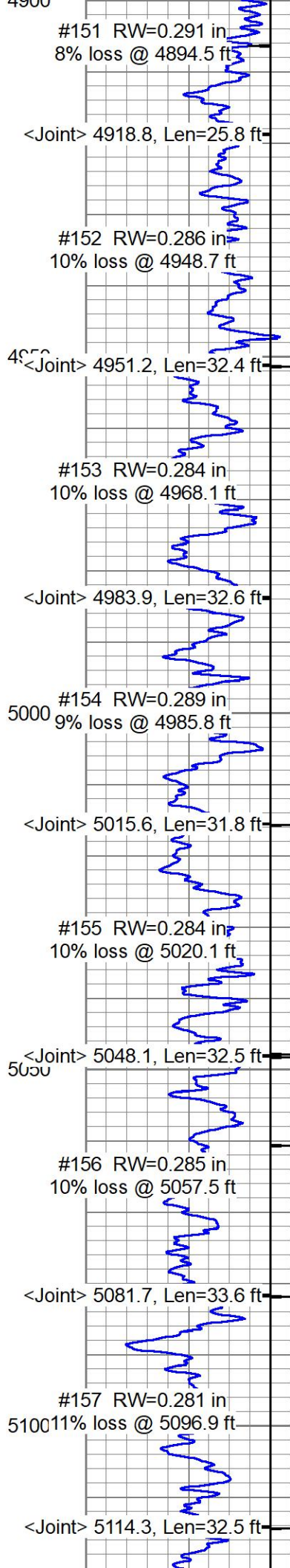


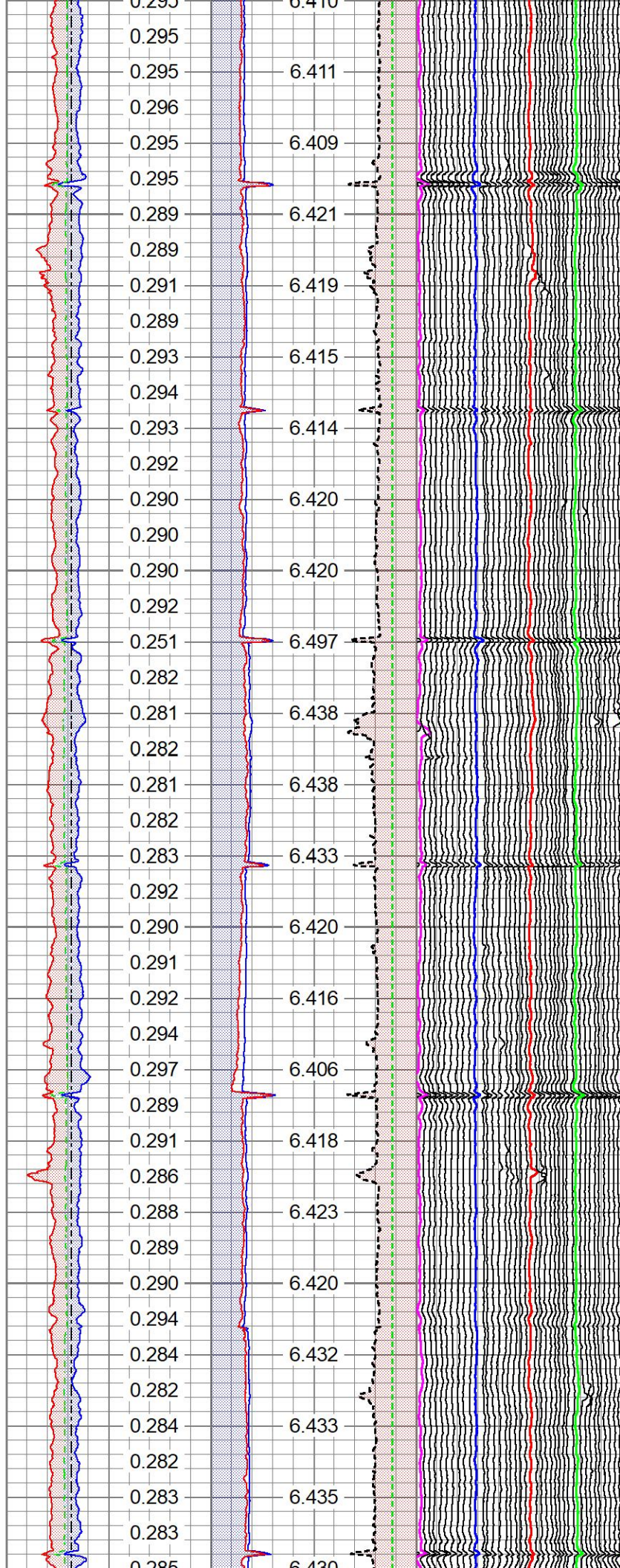
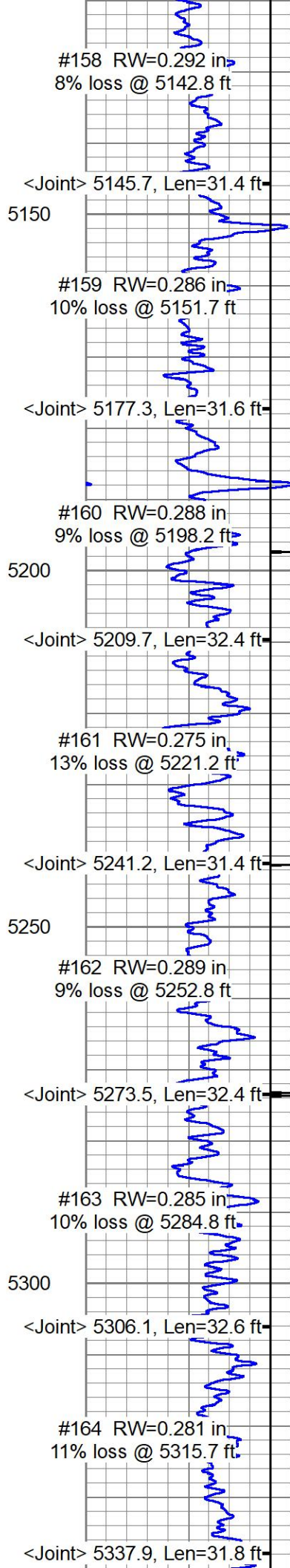


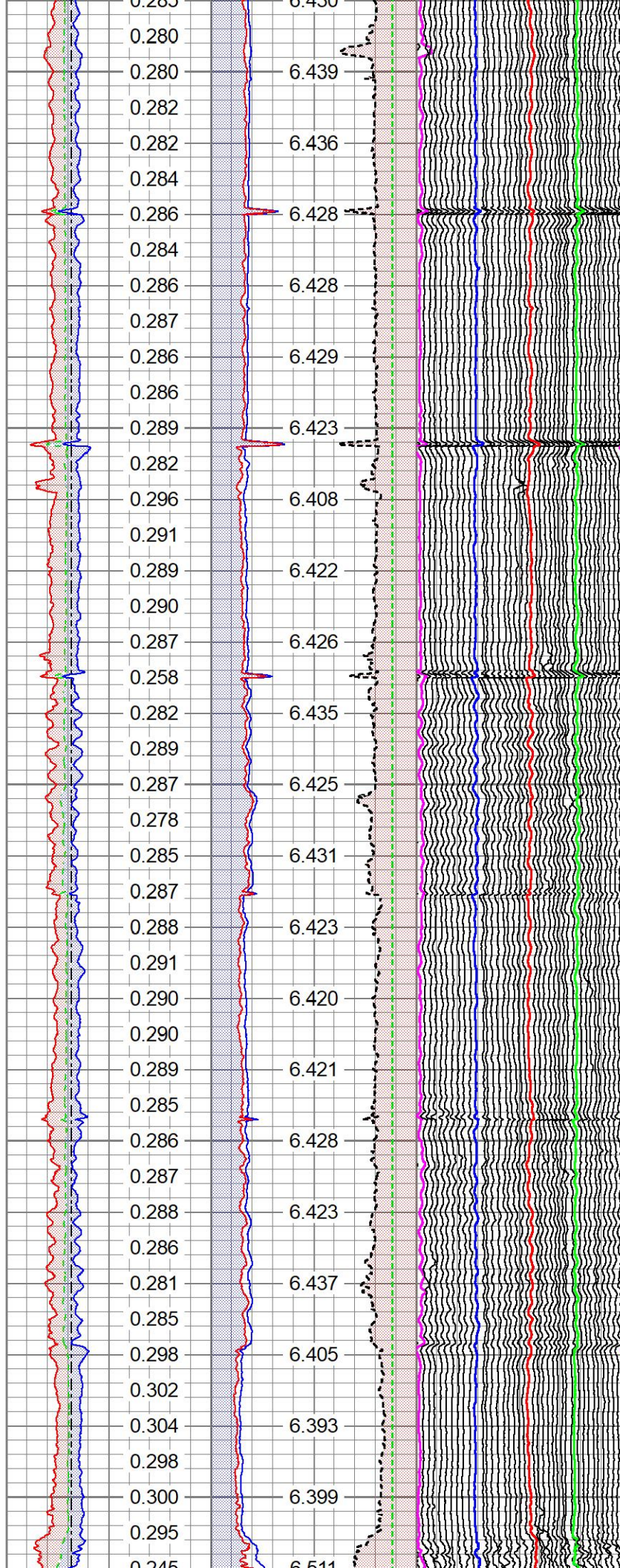
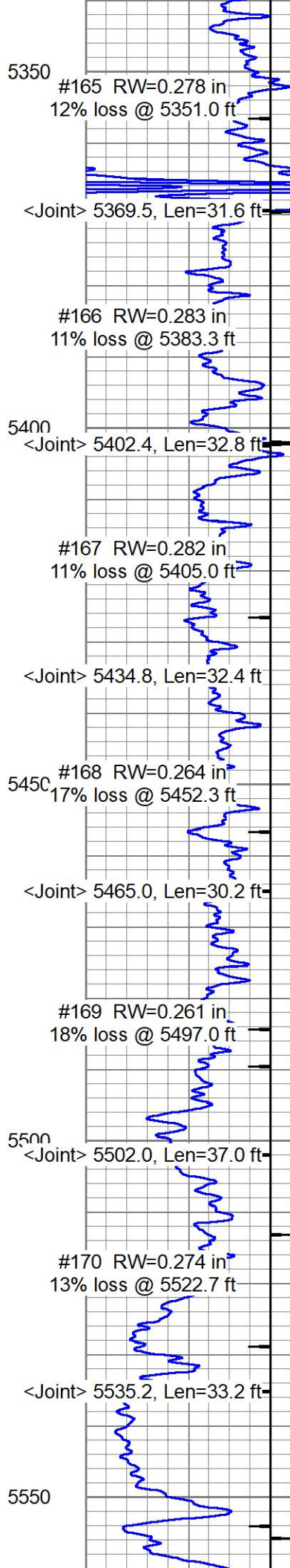


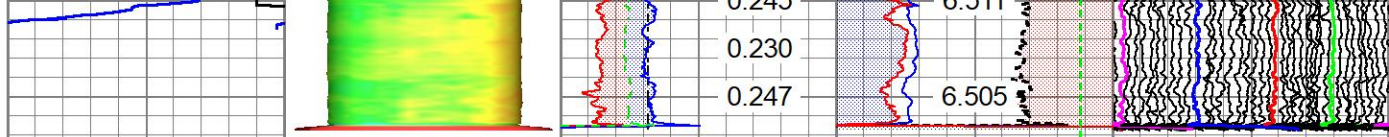












Gamma Ray			Casing Image	Nominal Thickness			Average ID			1.875	R10 (in)	4.375
0	(GAPI)	150		0	(in)	1	6.25	(in)	7.25	1.25	R20 (in)	3.75
9	Casing Collars -1			Minimum Thickness			Maximum ID			0.625	R30 (in)	3.125
PTANN				0	(in)	1	7.25	(in)	6.25	0	R40 (in)	2.5
				Maximum Thickness			Minimum ID					
				0	(in)	1	6.25	(in)	7.25			
				Average Thickness			Nominal ID					
				0	(in)	1	7.25	(in)	6.25			
				AVTK (in)			IDAV (in)					

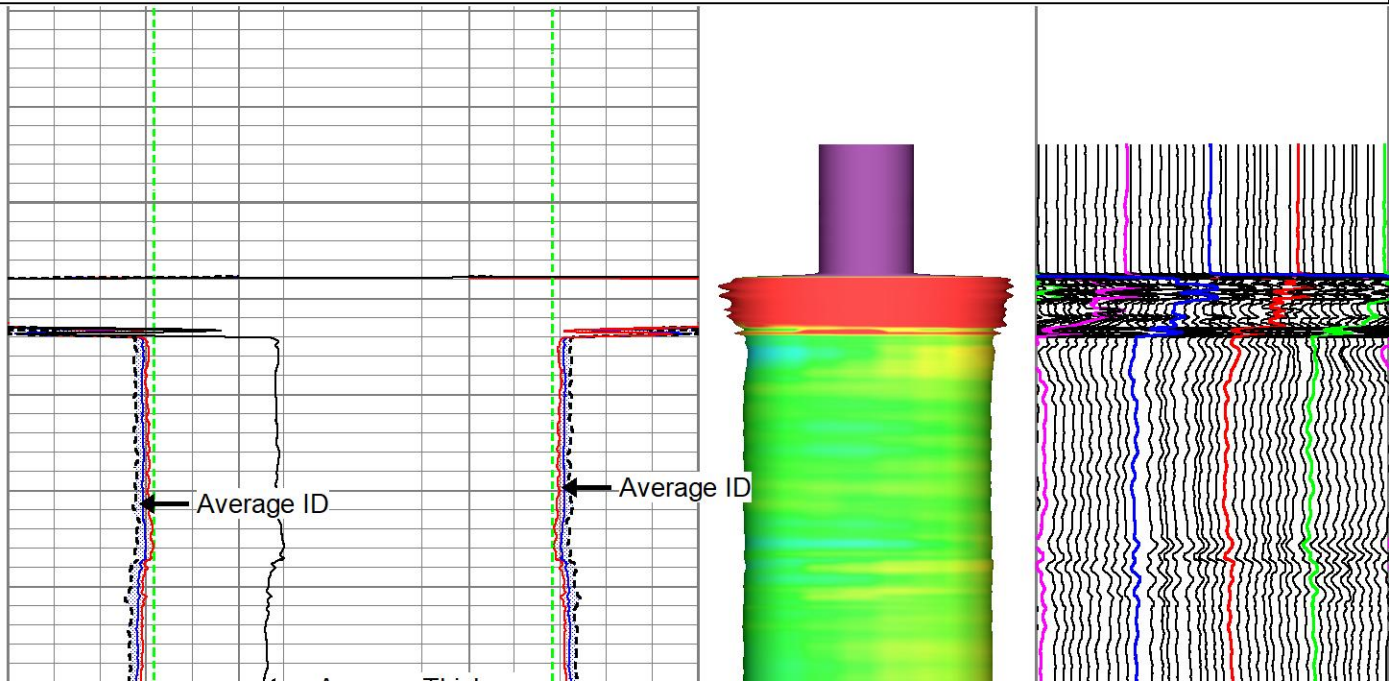


Main Pass 5" = 100'

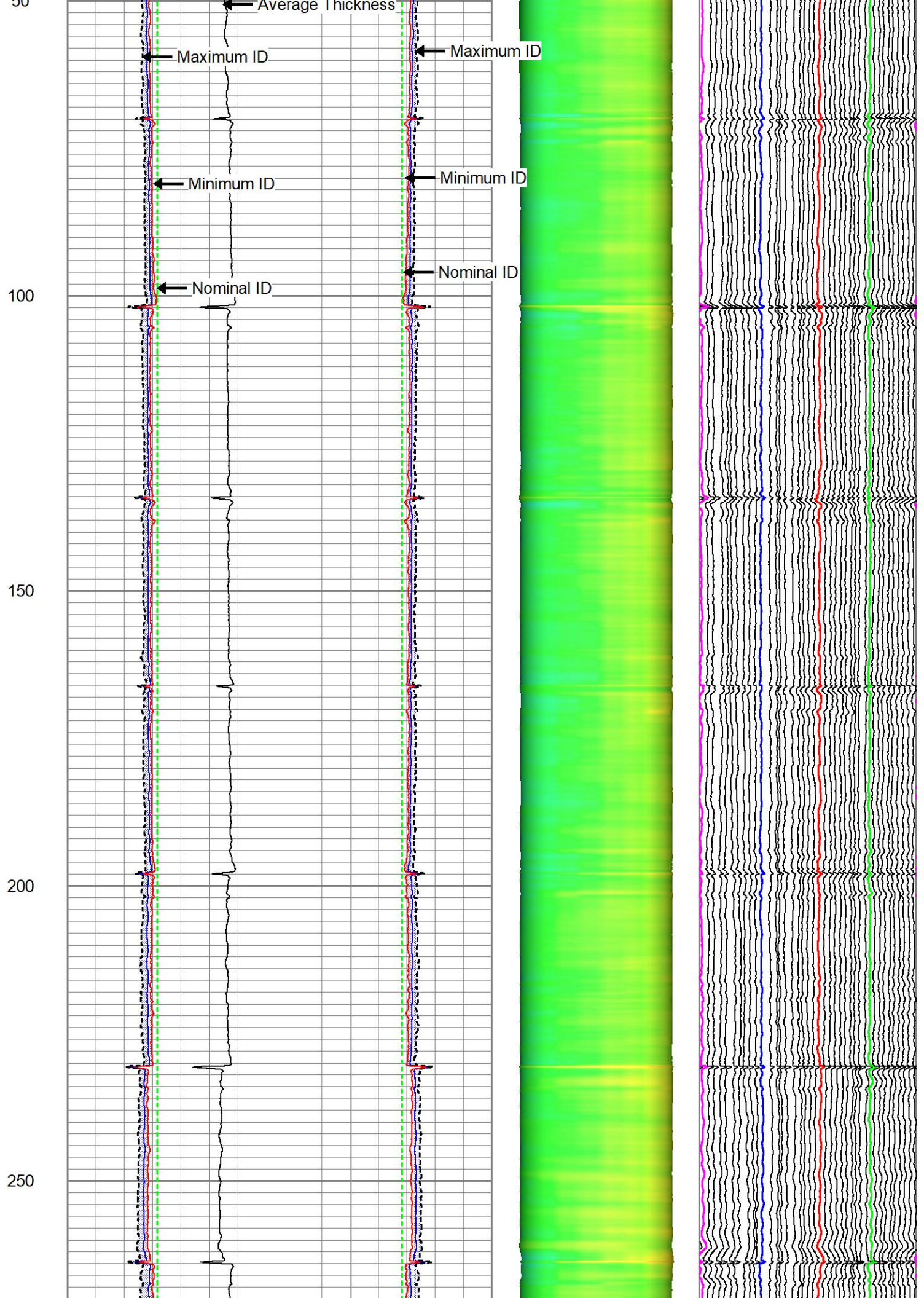
Database File c:\warrior\data\chevron_union_pacific_72x_31_mac\chevron_union_pacific_72x_31_mac8.db
 Dataset Pathname passM
 Presentation Format 8msc7
 Dataset Creation Wed Aug 02 22:06:16 2017
 Charted by Depth in Feet scaled 1:240

0			Average Thickness (in)			0.75			IMGMAP			1.875			R10 (in)			4.375					
Nominal ID						Average ID			5.732			7			1.25			R20 (in)			3.75		
7 (in) 6						6 (in) 7									0.625			R30 (in)			3.125		
Average ID						Maximum ID									0			R40 (in)			2.5		
7 (in) 6						6 (in) 7																	
Minimum ID						Minimum ID																	
7 (in) 6						6 (in) 7																	
Maximum ID						Nominal ID																	
7 (in) 6						6 (in) 7																	

0



50

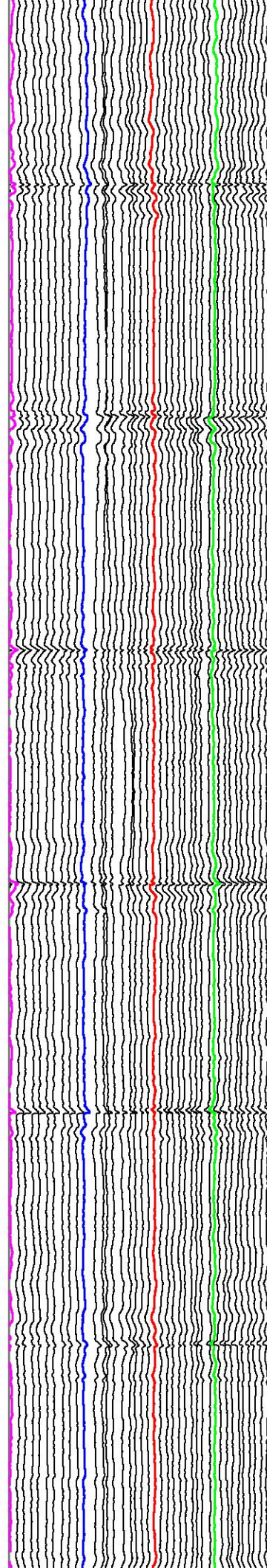
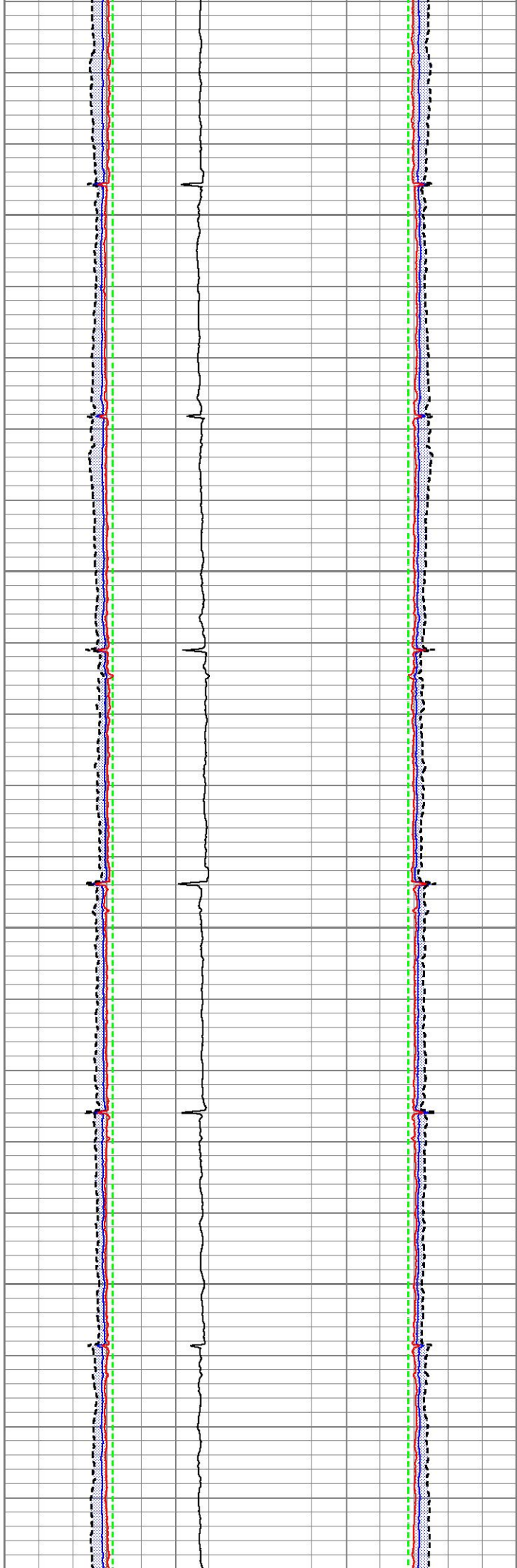


300

350

400

450



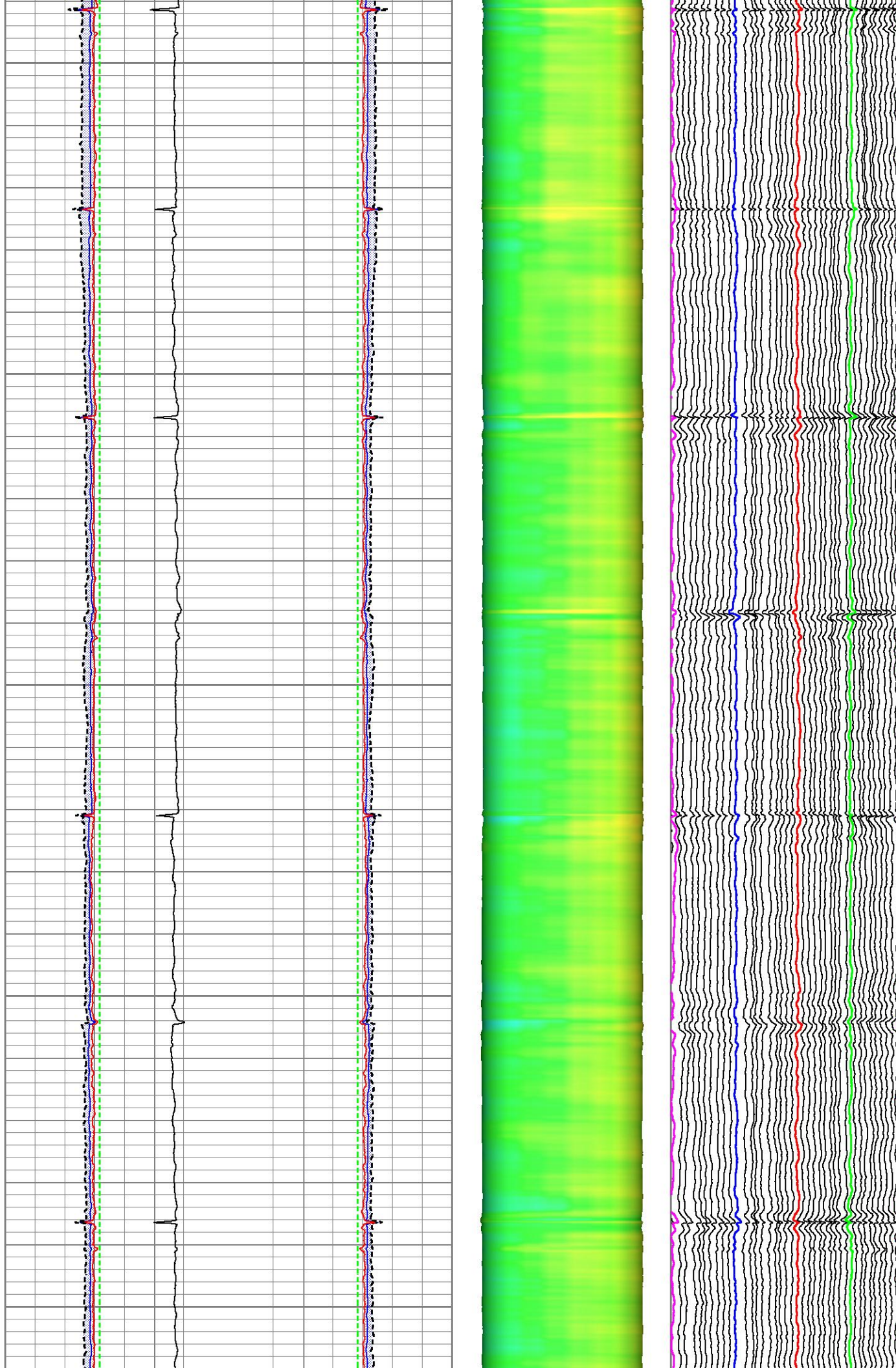
500

550

600

650

700

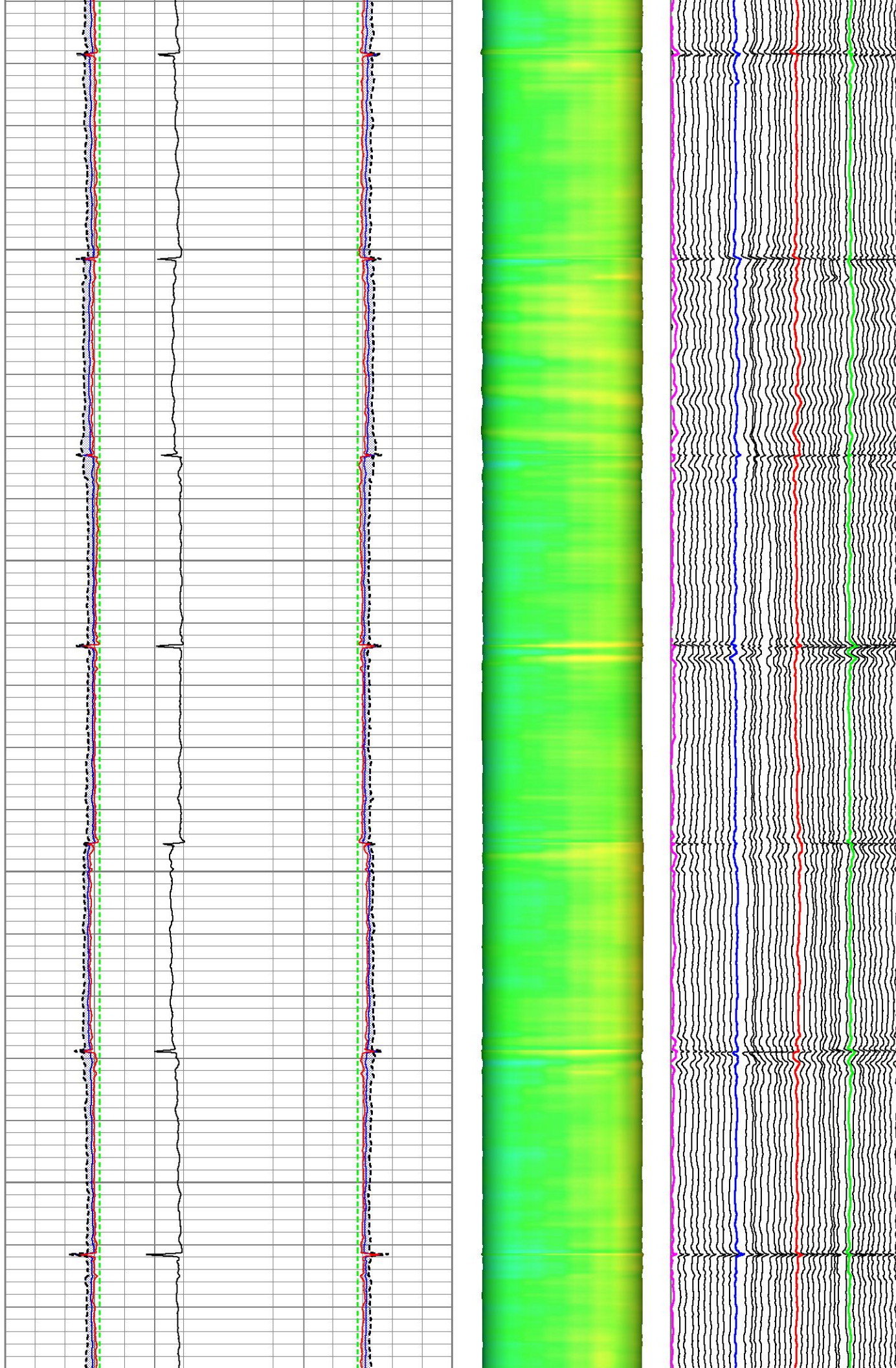


750

800

850

900



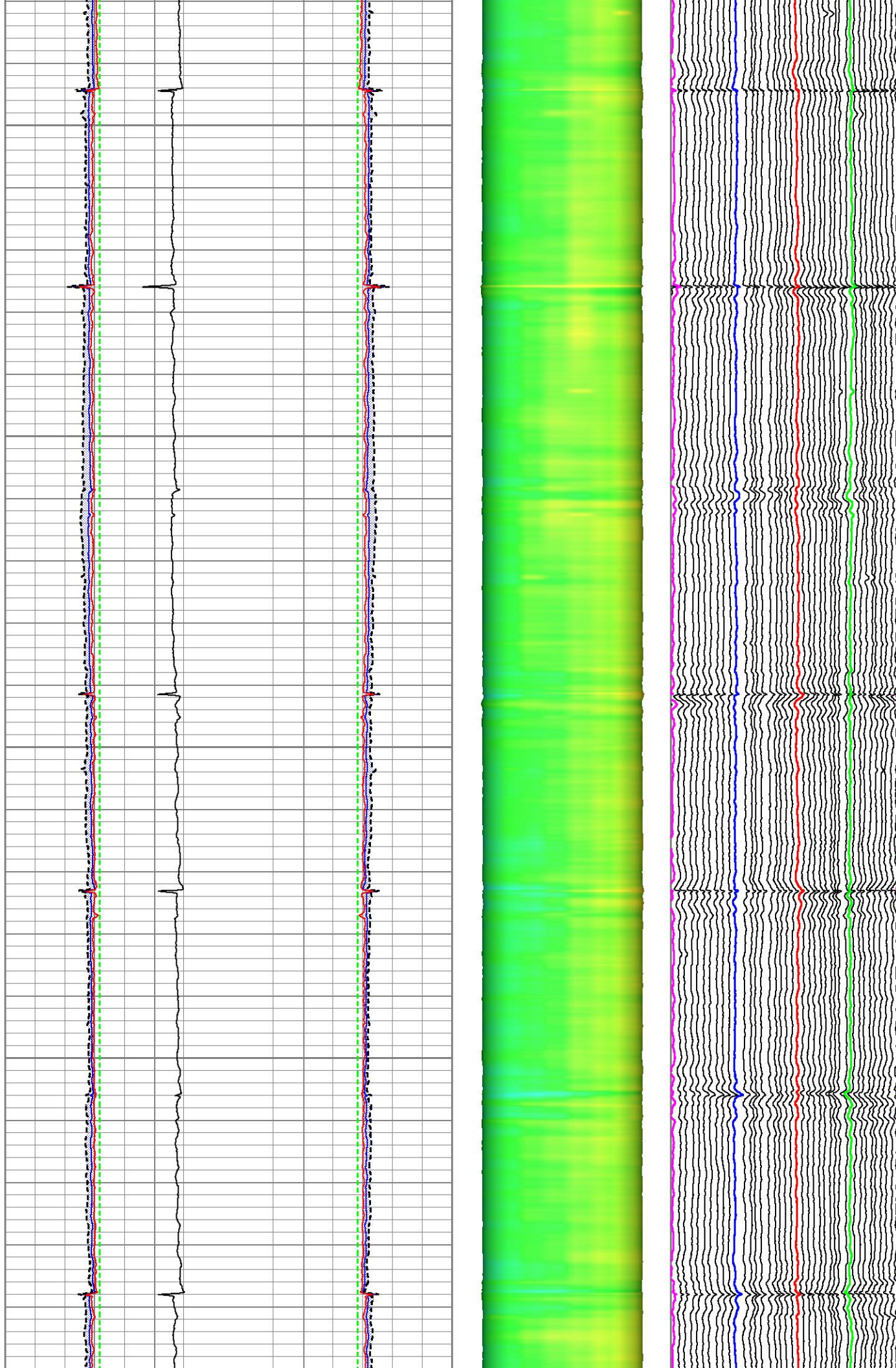
950

1000

1050

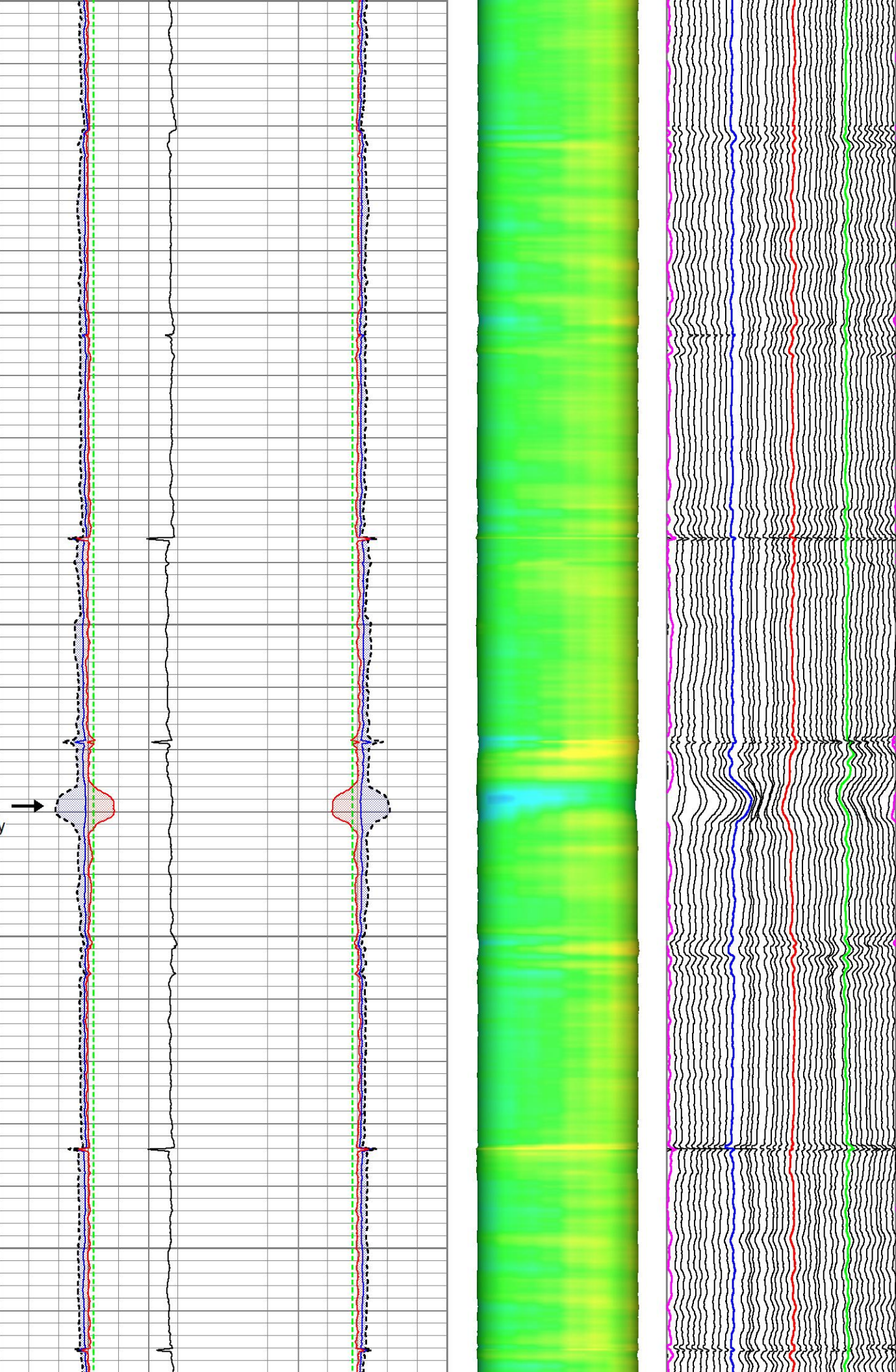
1100

1150



1150
1200
1250
1300
1350

Casing
Anomaly

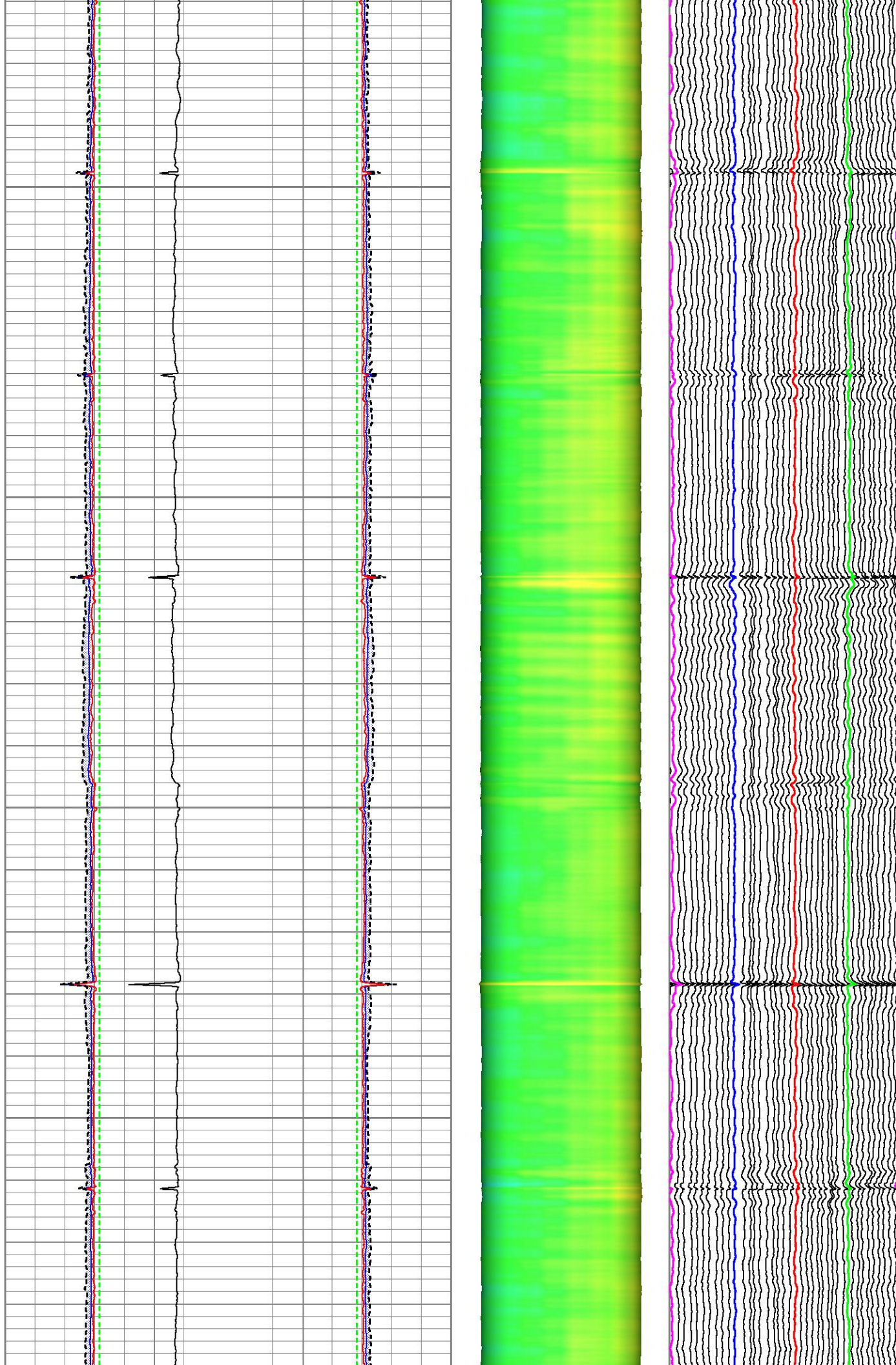


1400

1450

1500

1550



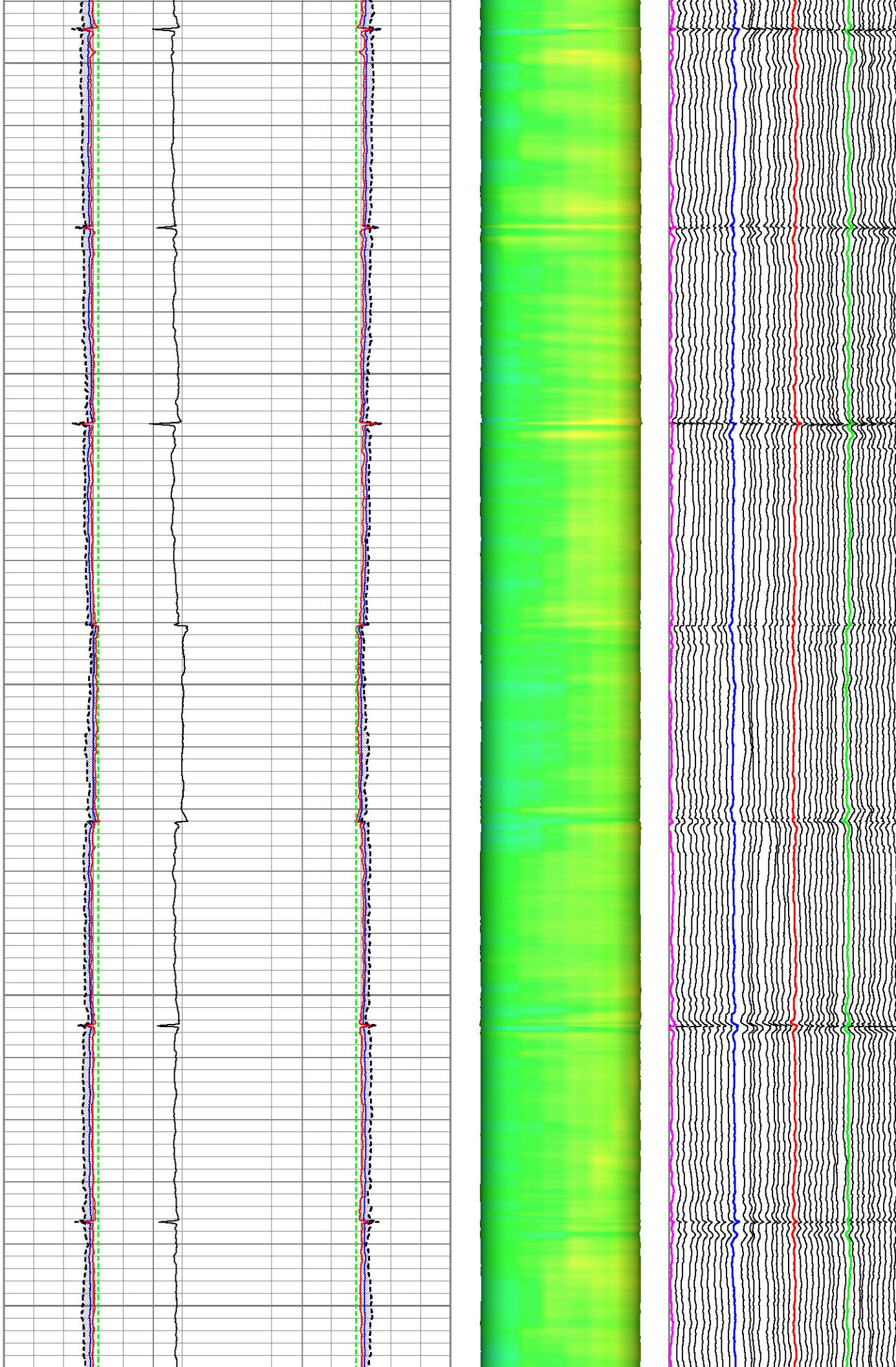
1600

1650

1700

1750

1800

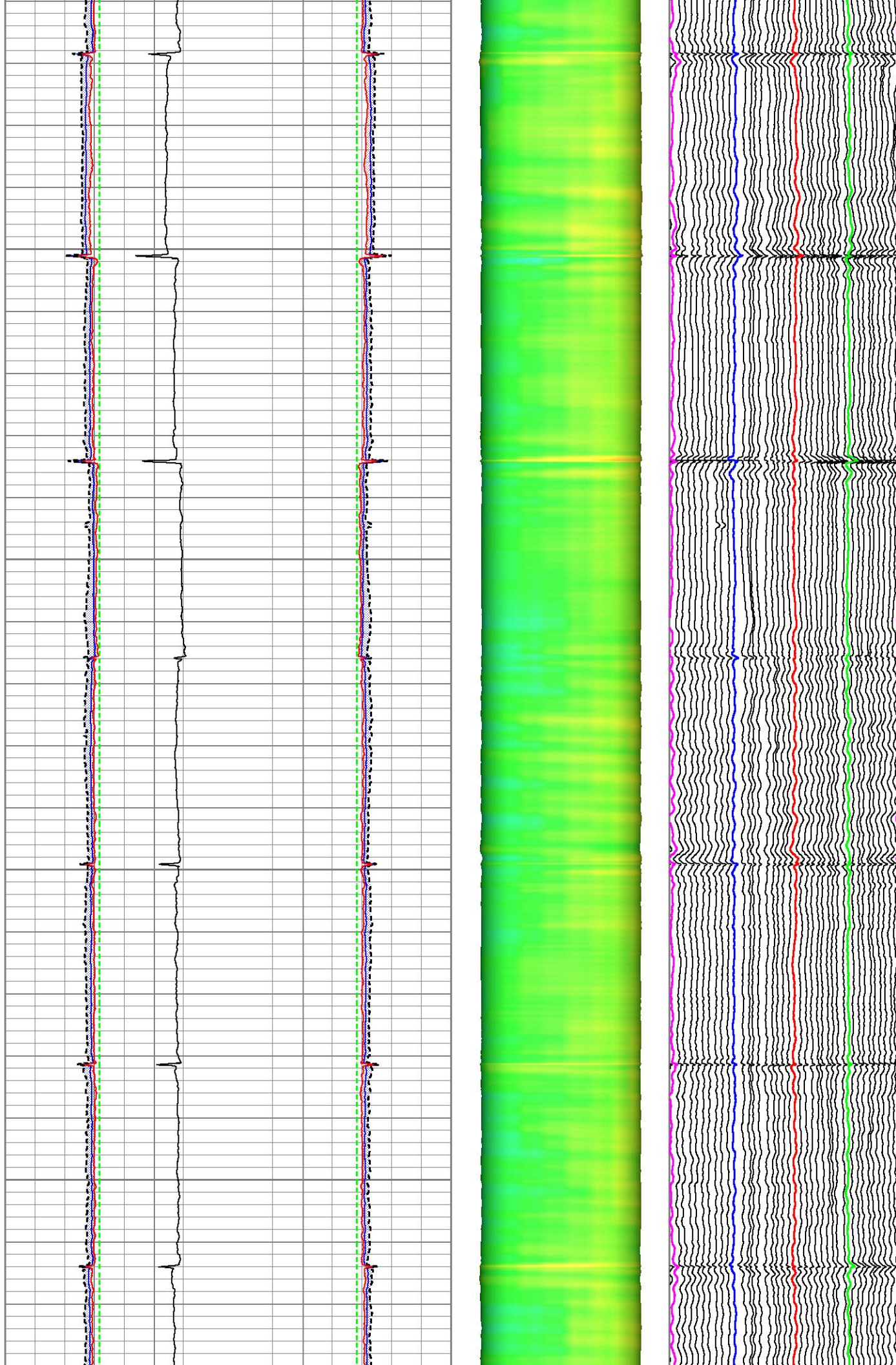


1850

1900

1950

2000



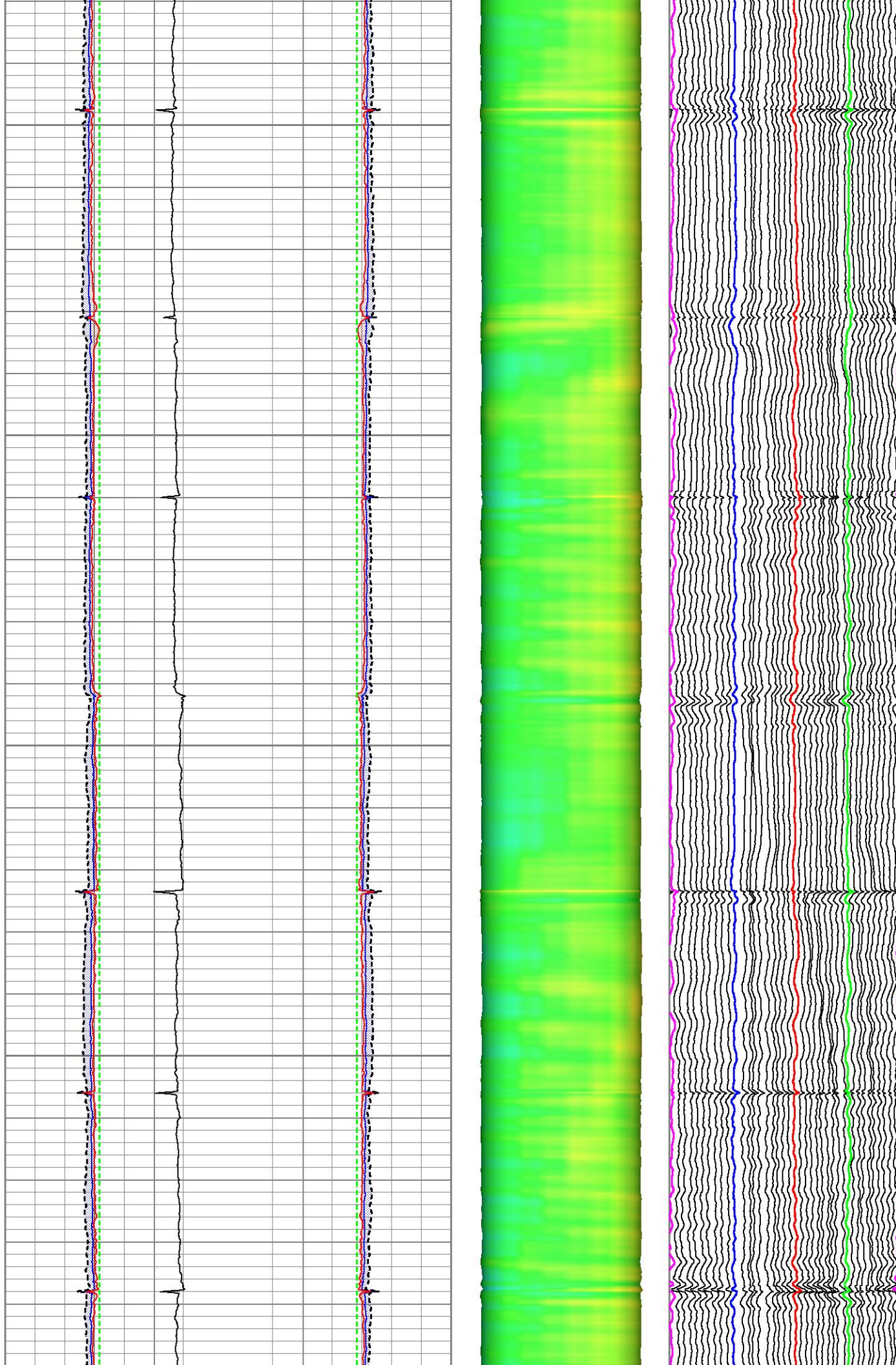
2050

2100

2150

2200

2250



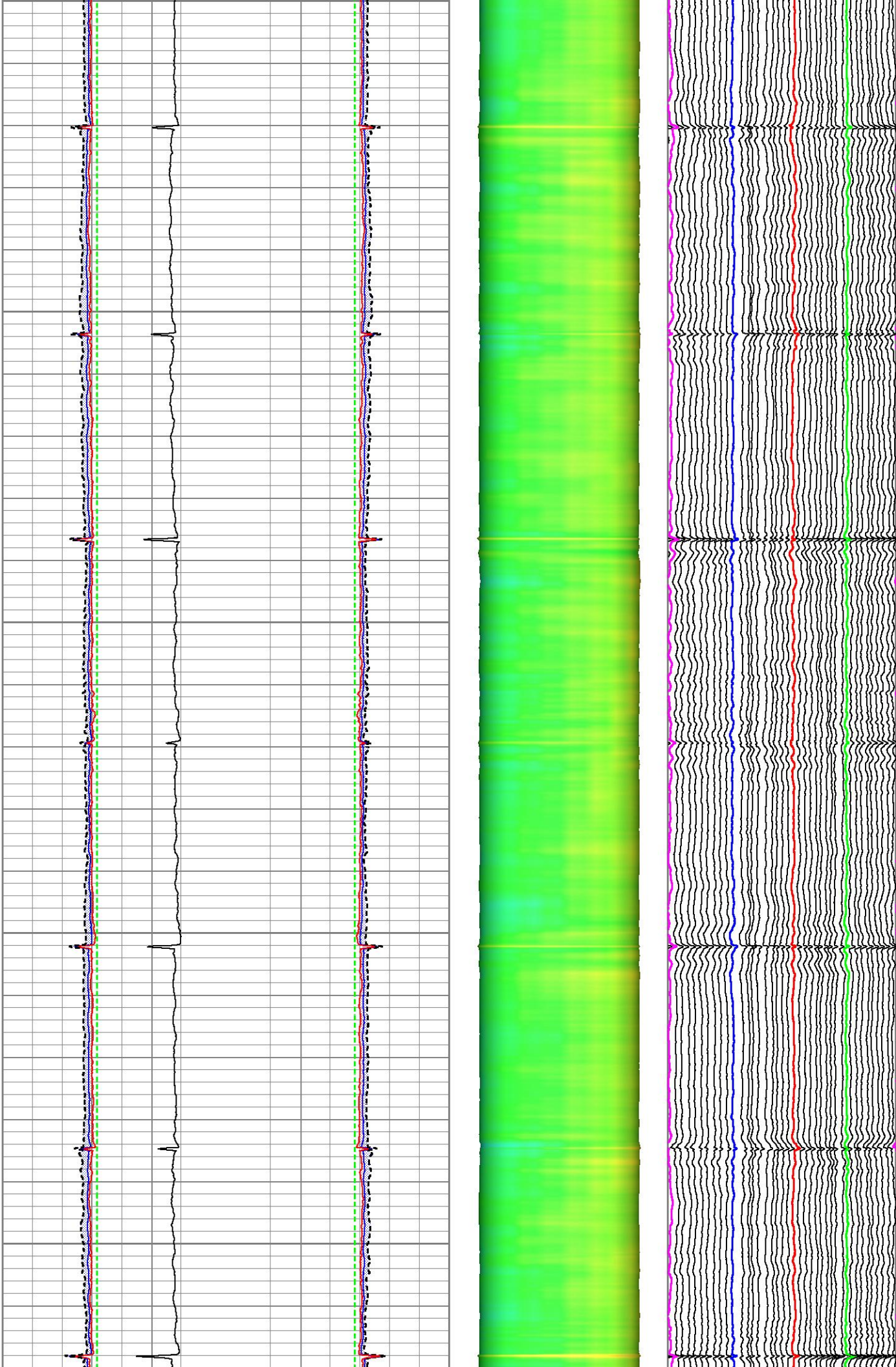
2250

2300

2350

2400

2450

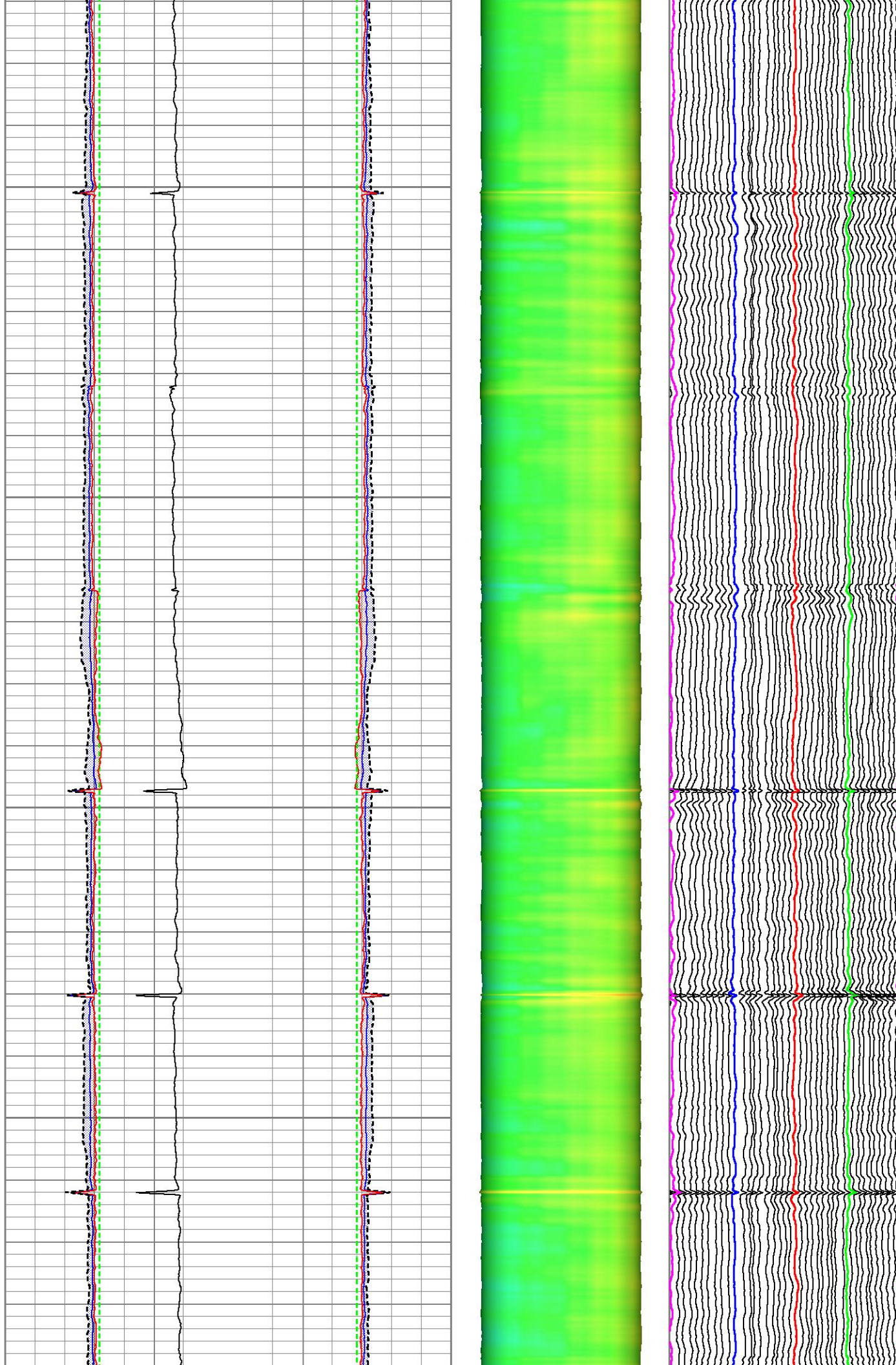


2500

2550

2600

2650



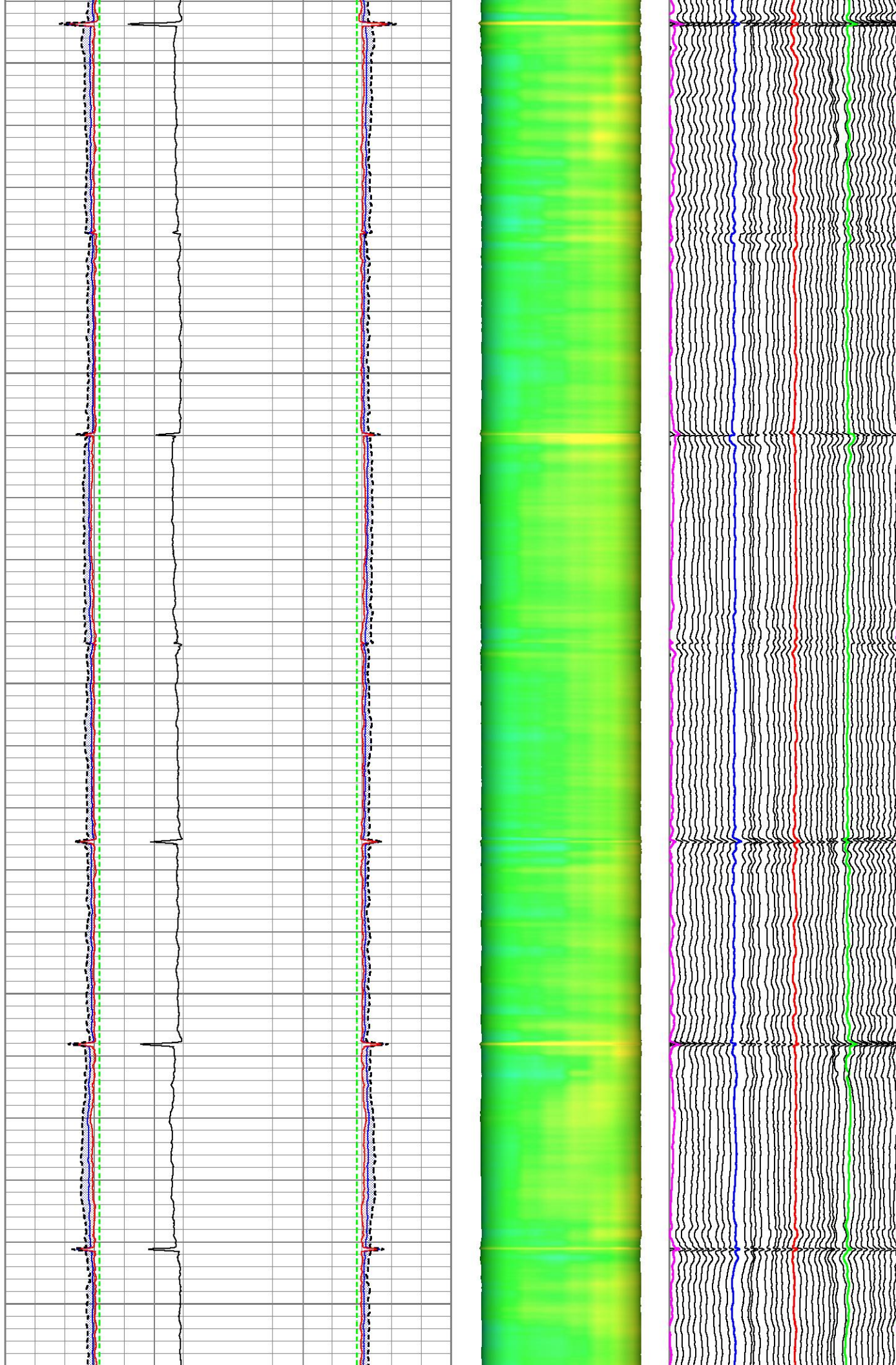
2700

2750

2800

2850

2900

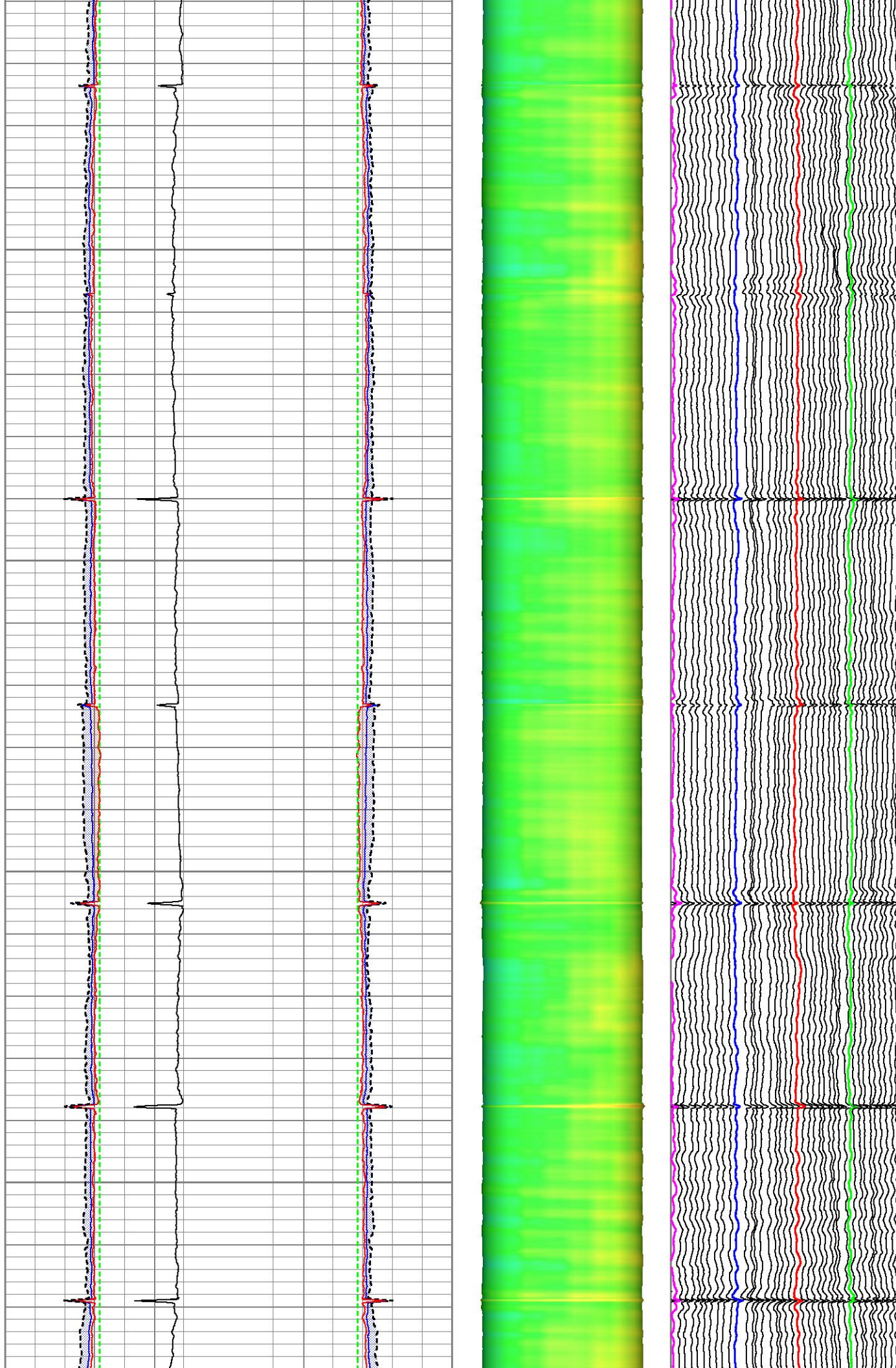


2950

3000

3050

3100



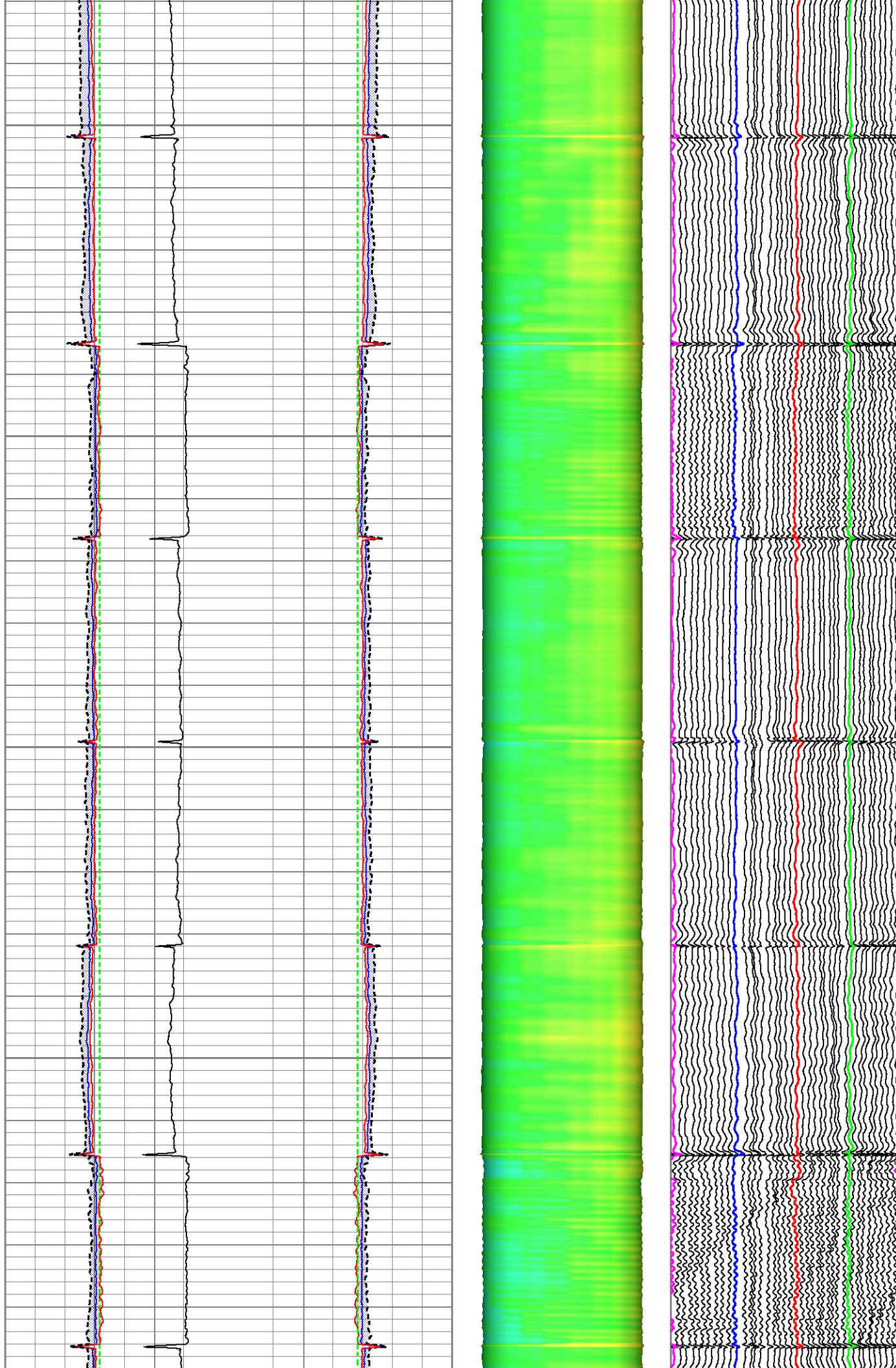
3150

3200

3250

3300

3350



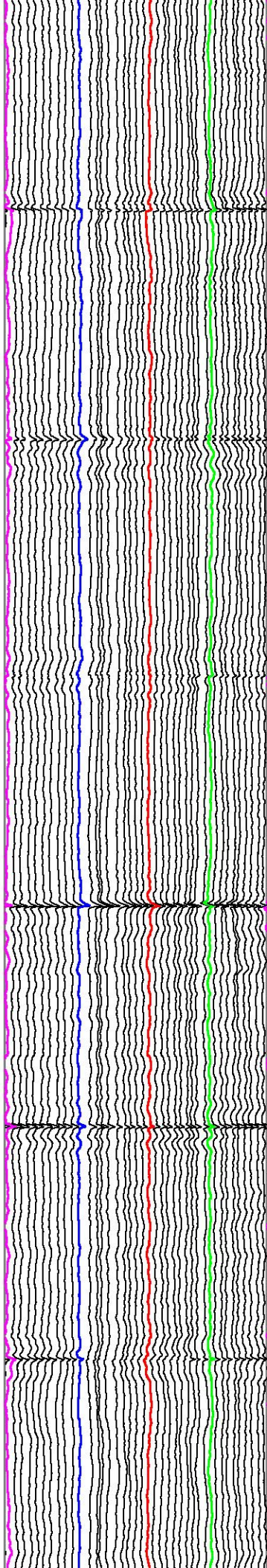
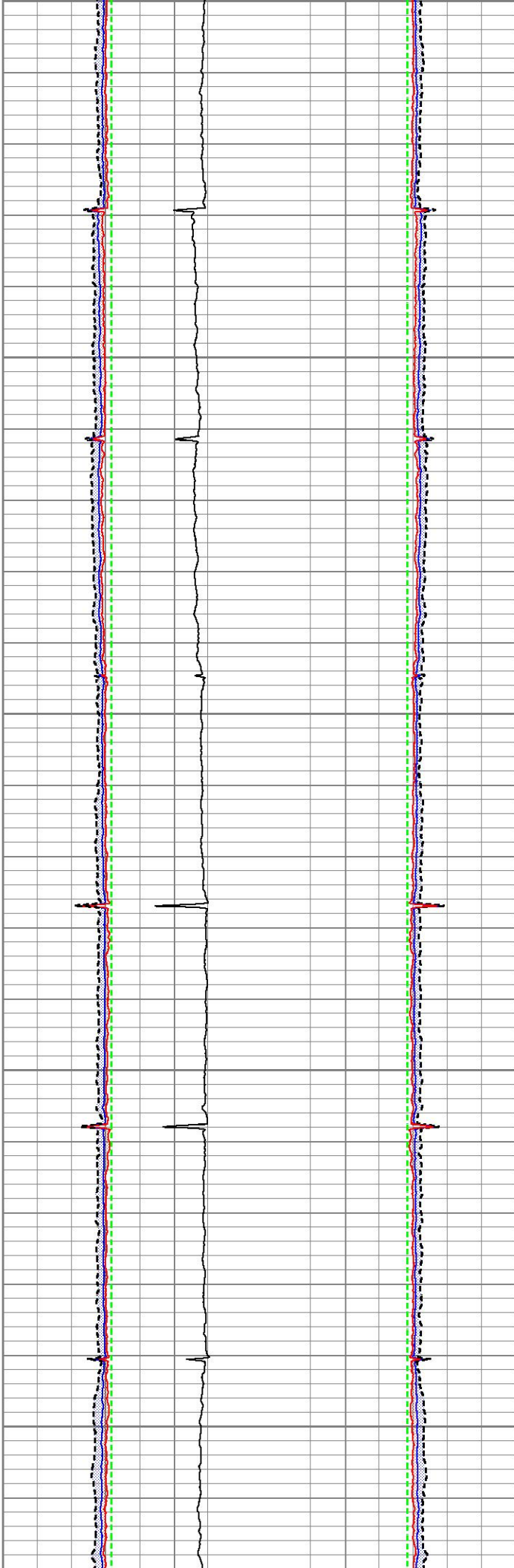
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3400

3450

3500

3550

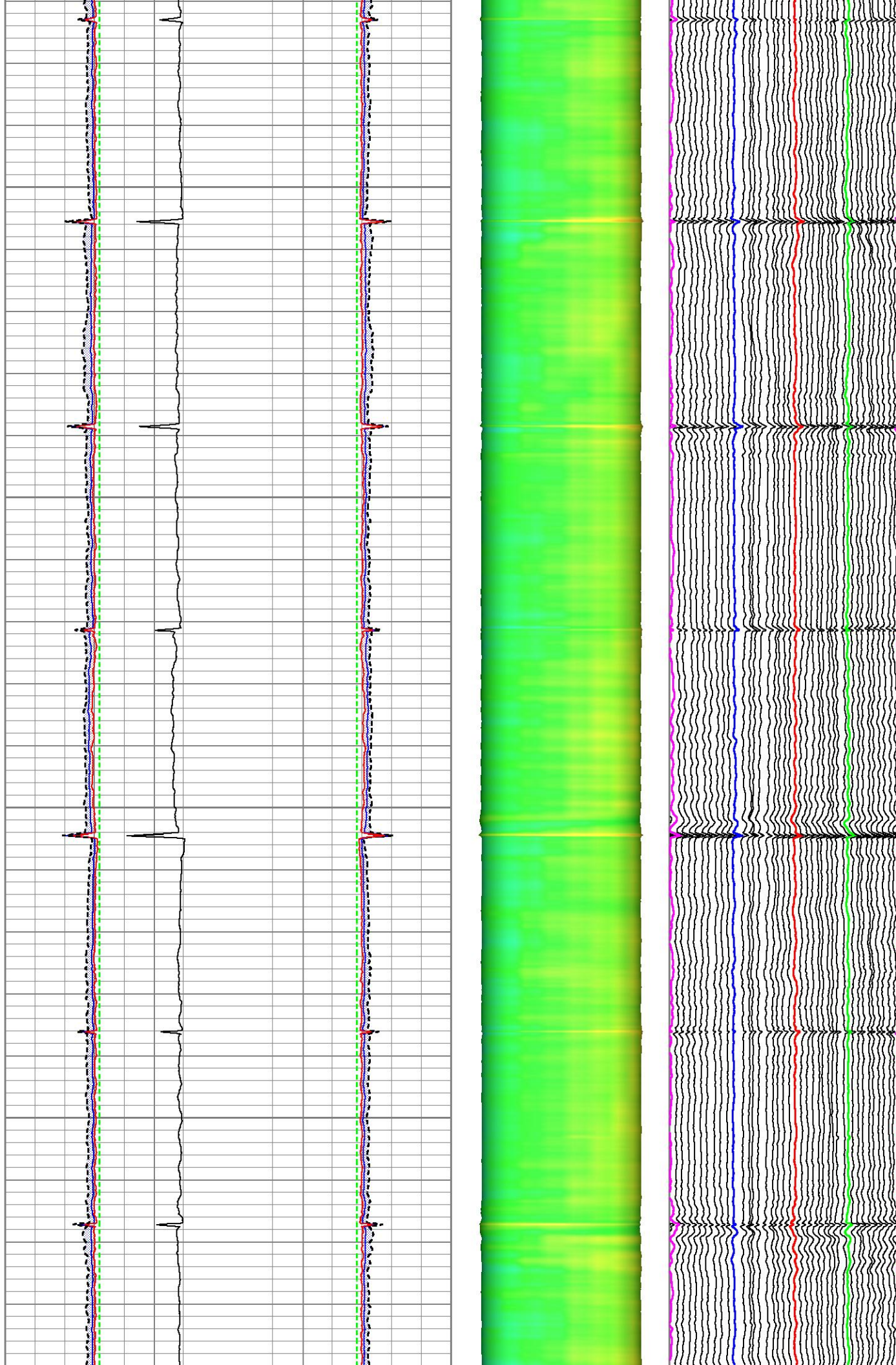


3600

3650

3700

3750



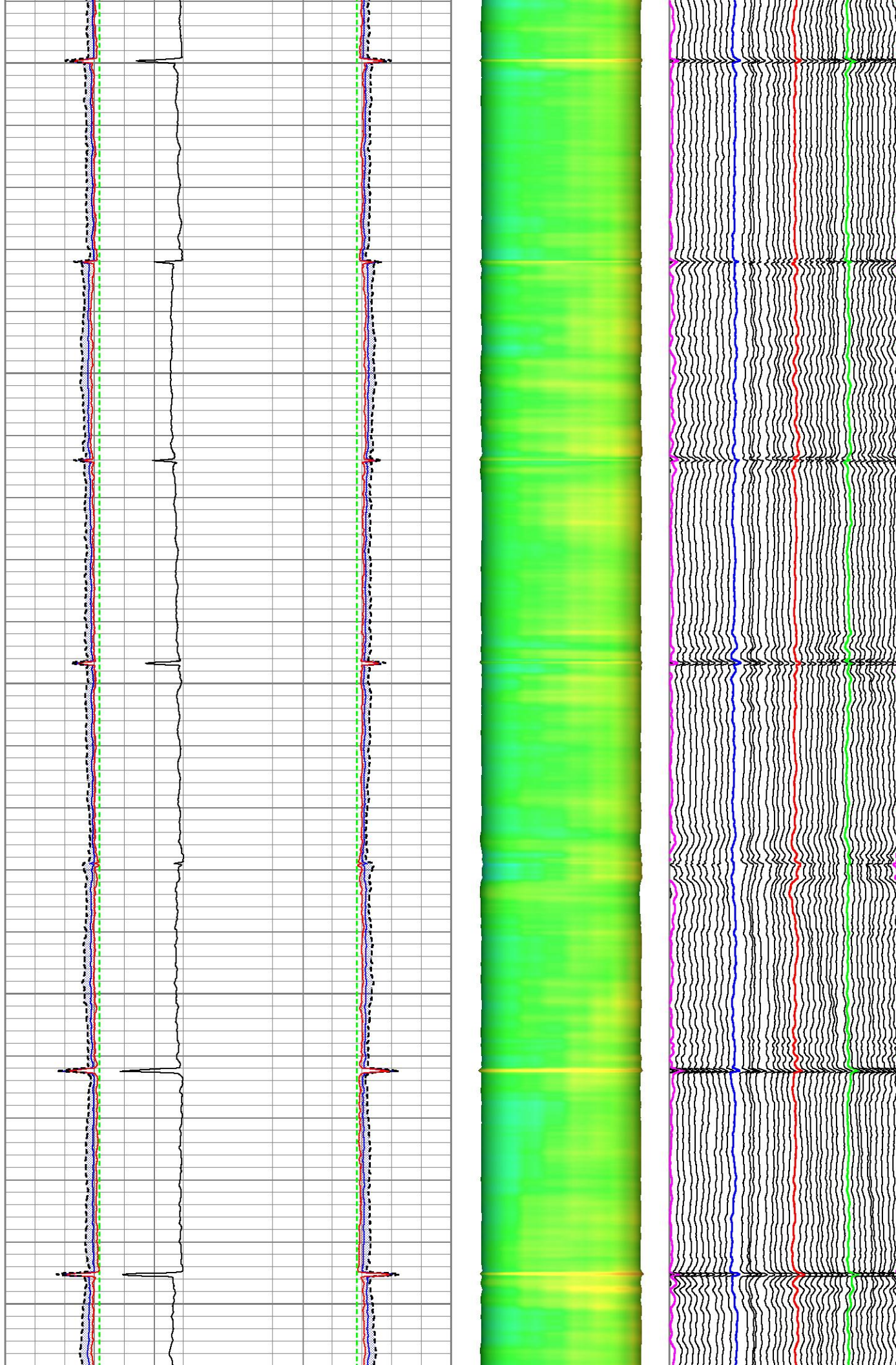
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3850

3900

3950

4000

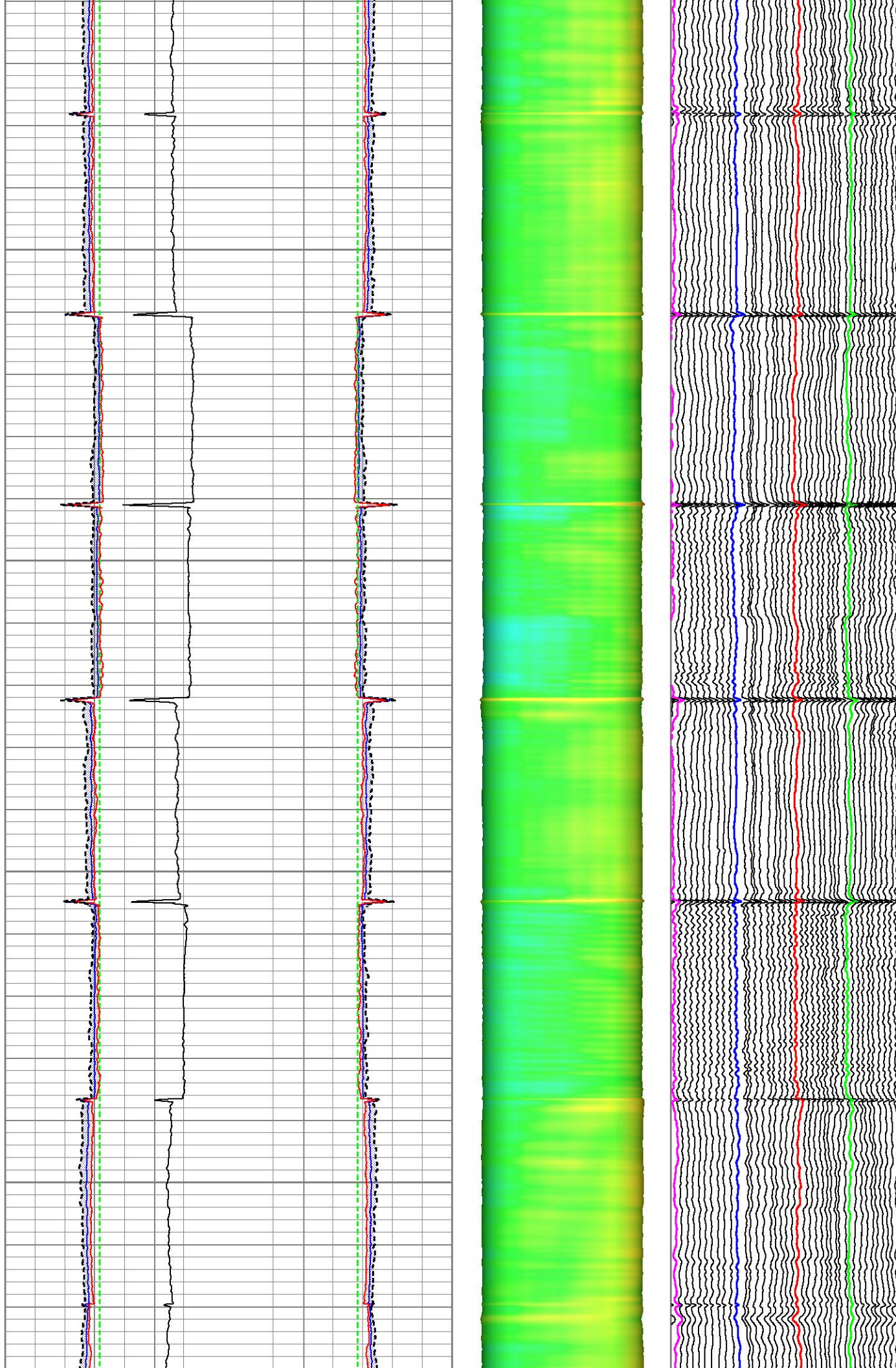


4050

4100

4150

4200



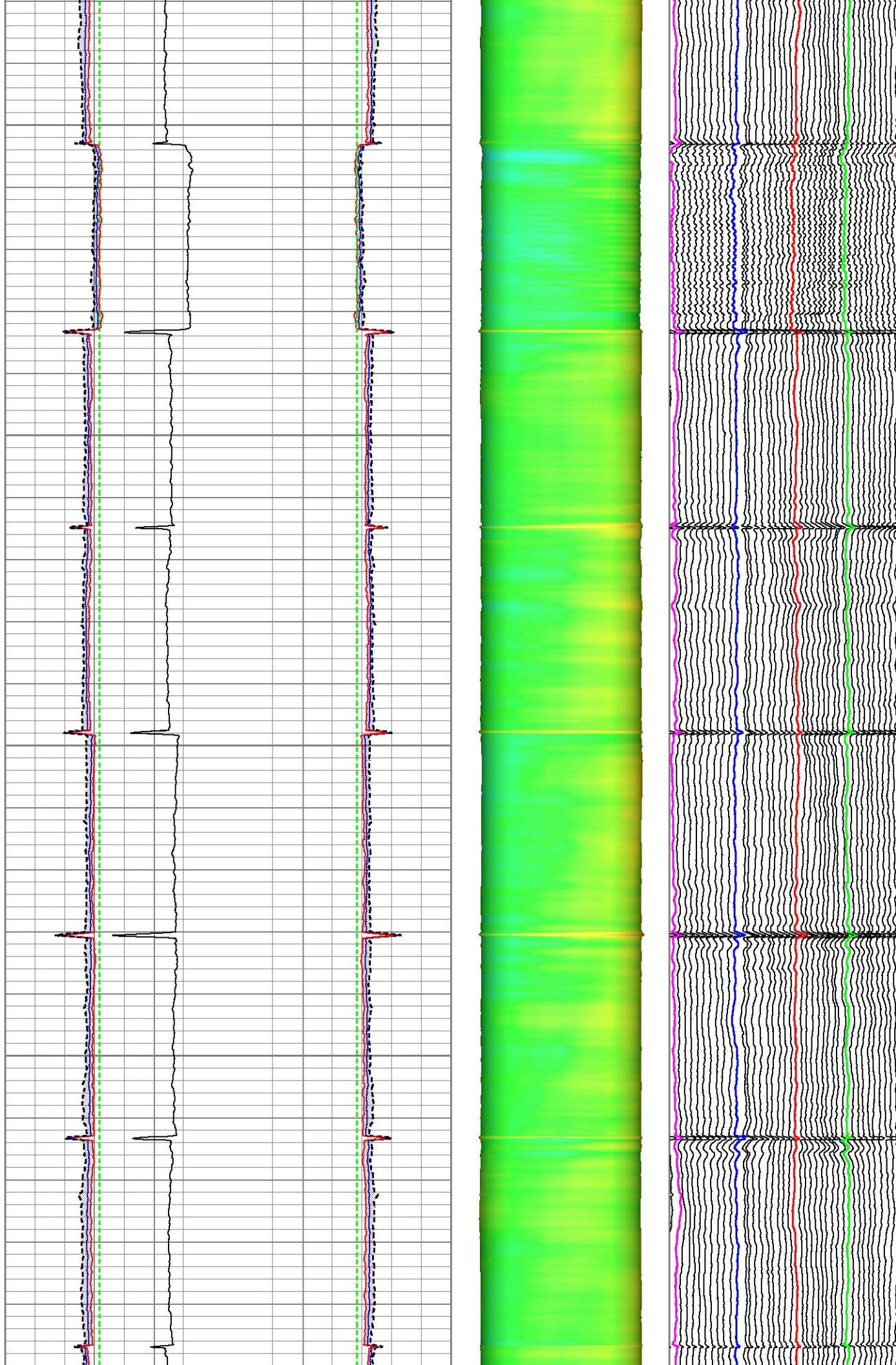
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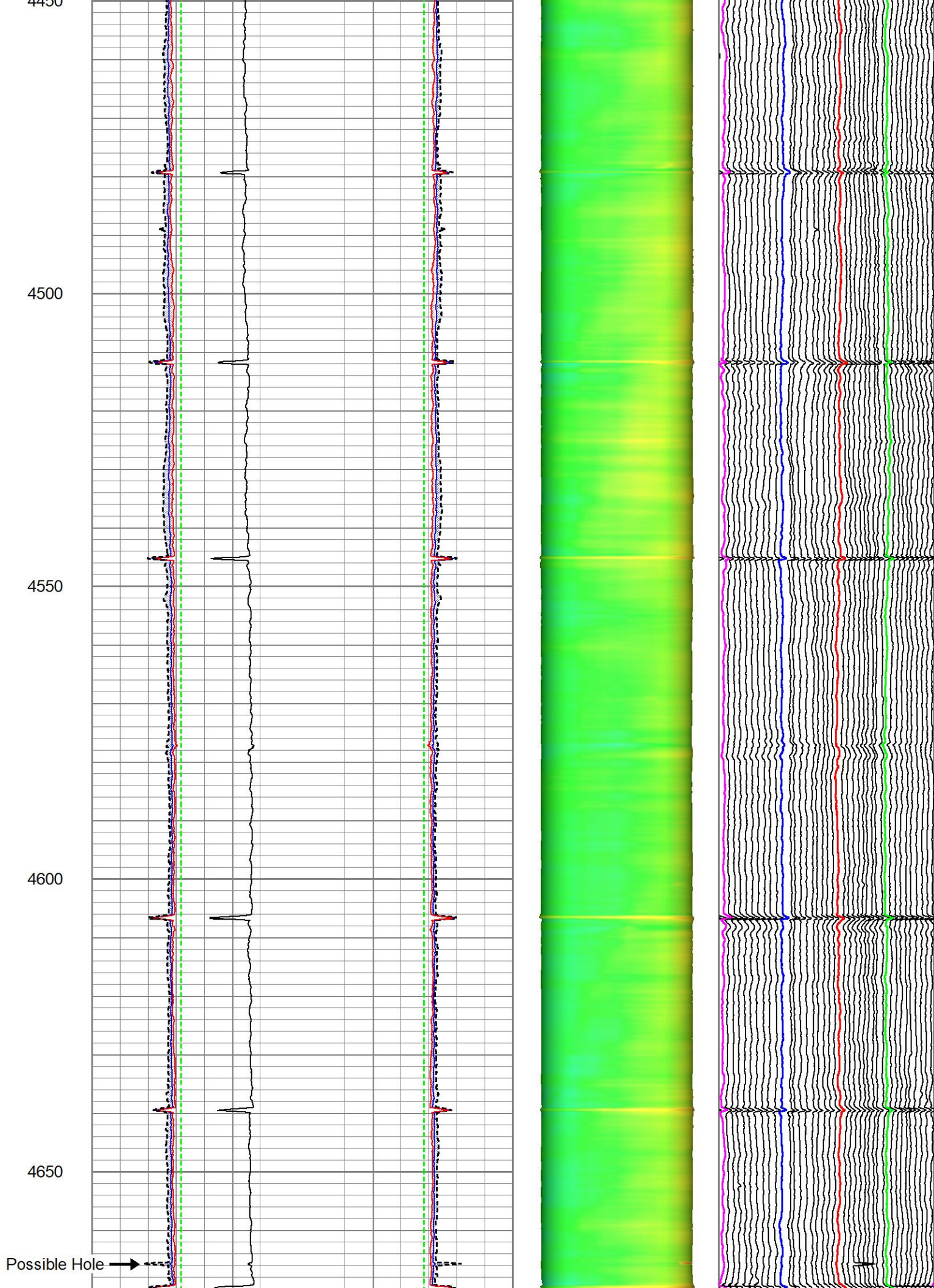
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4350

4400

4450





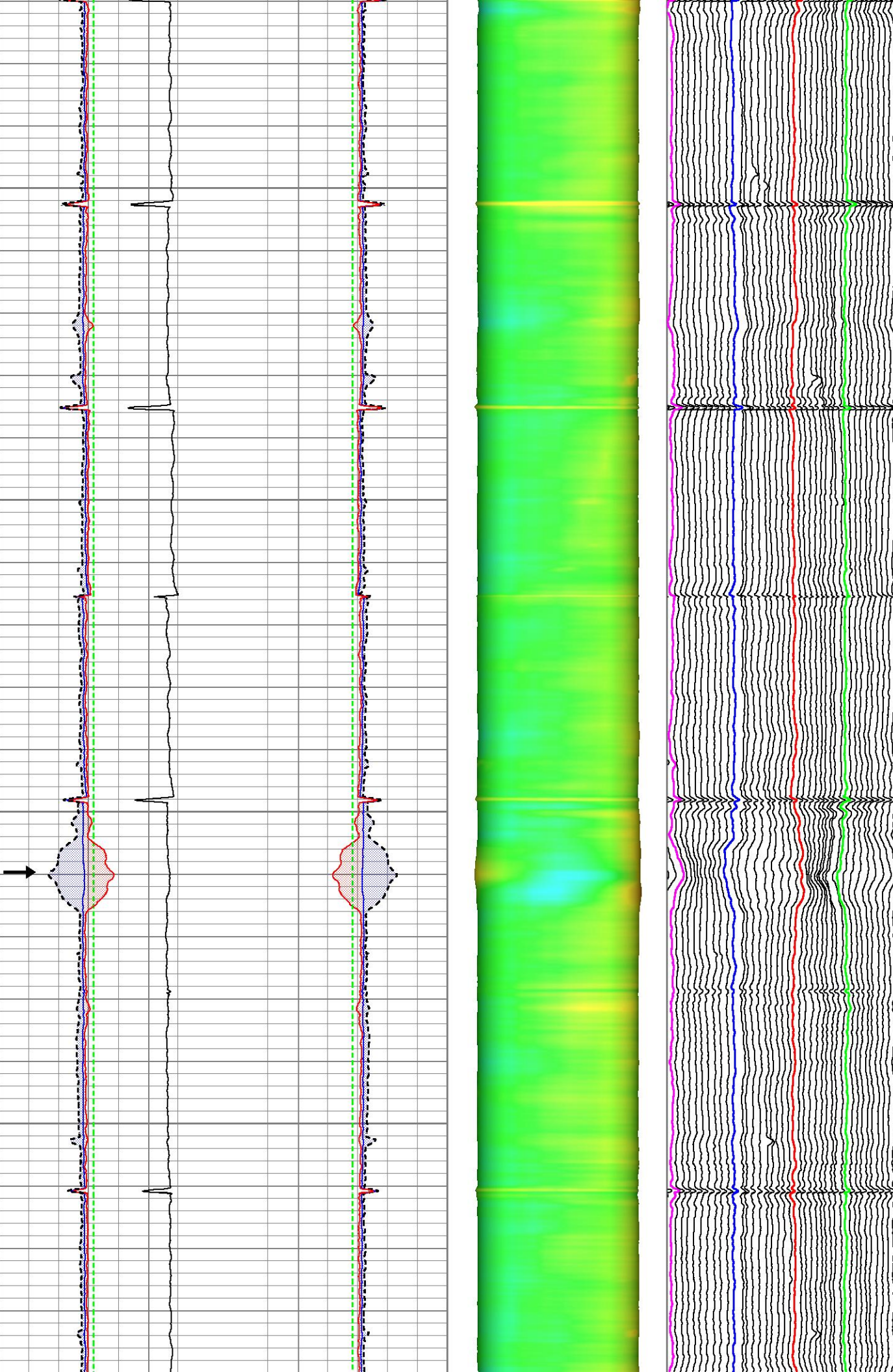
4700

4750

4800

4850

Casing
Anomaly



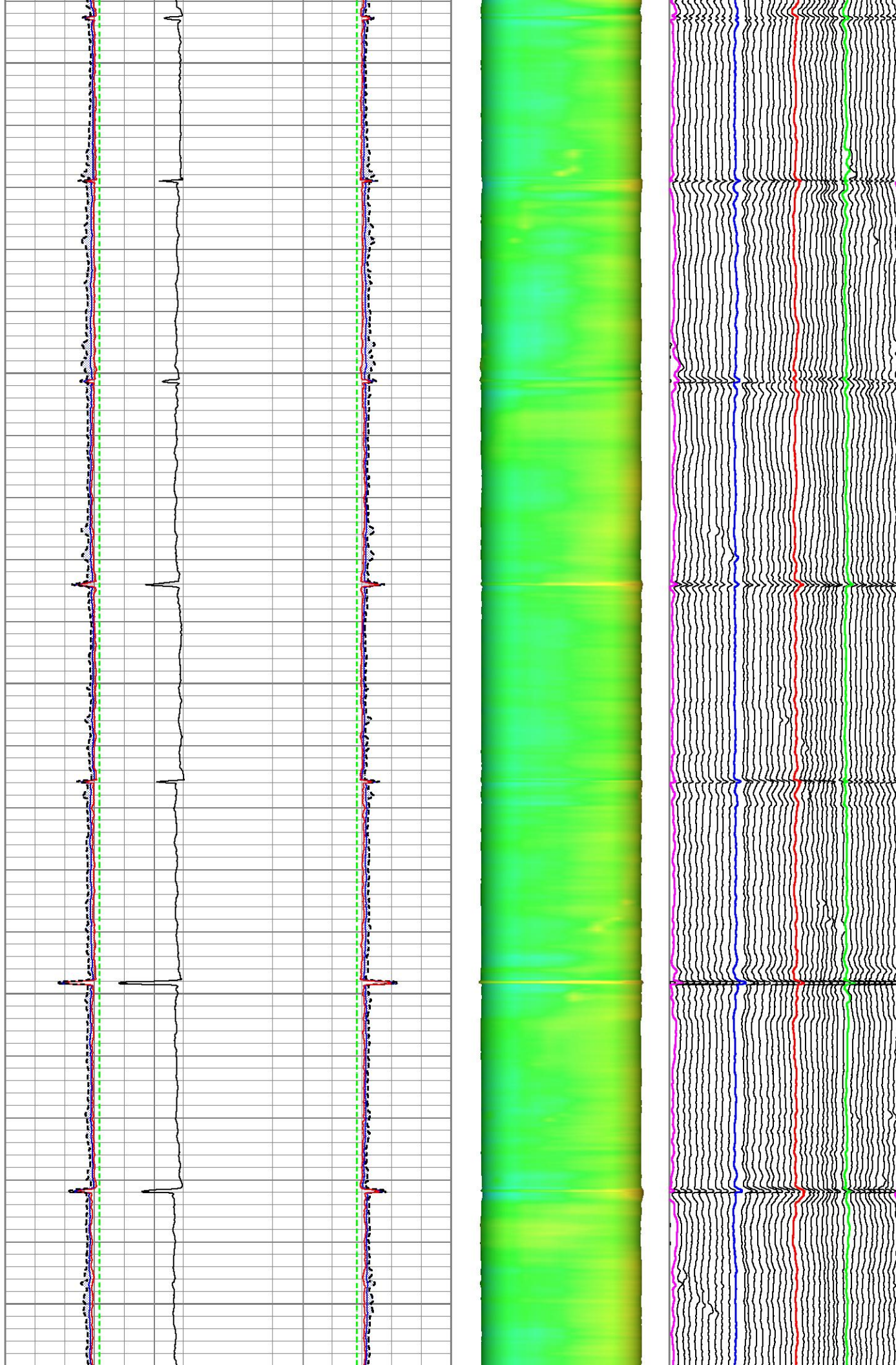
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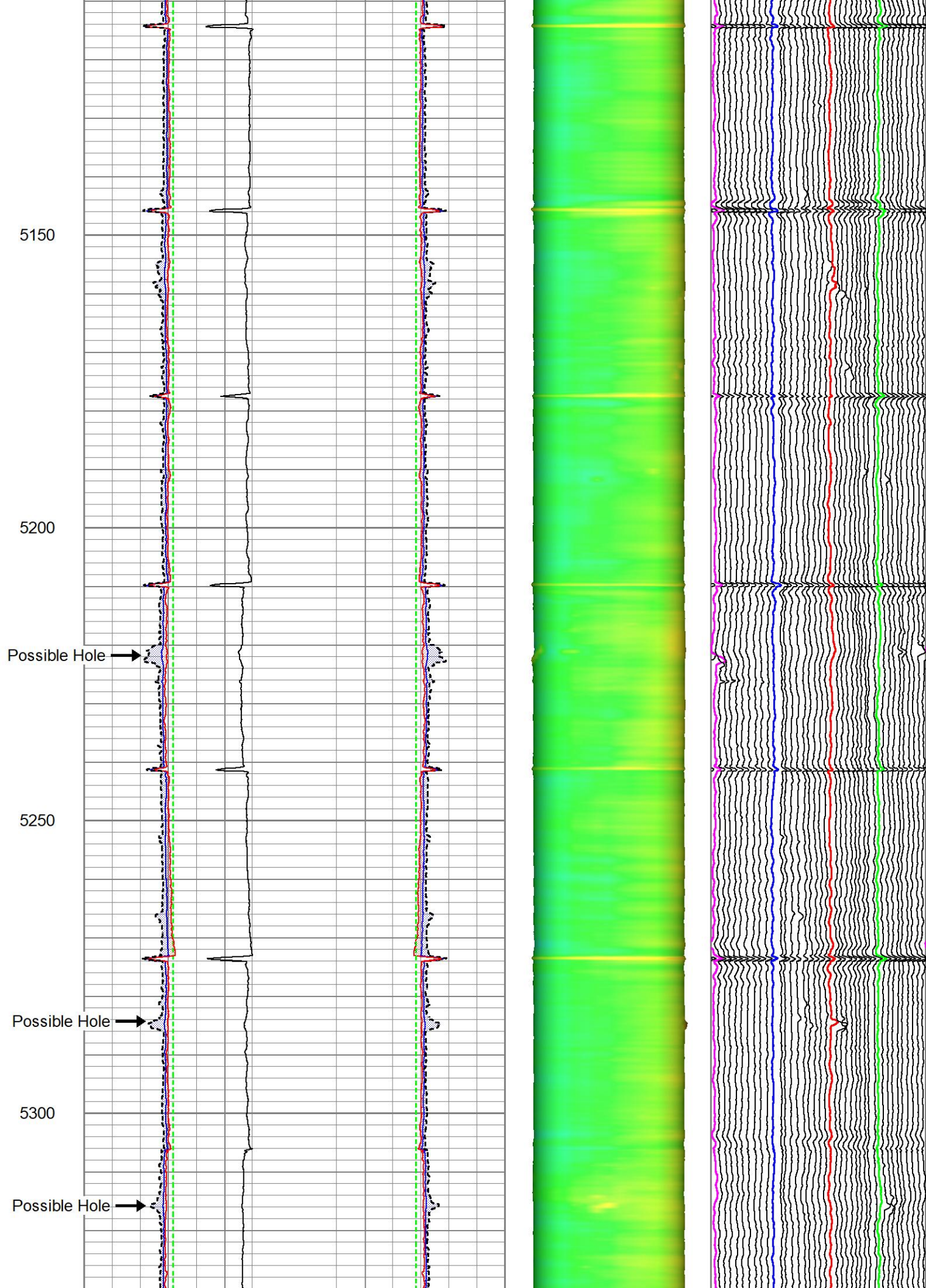
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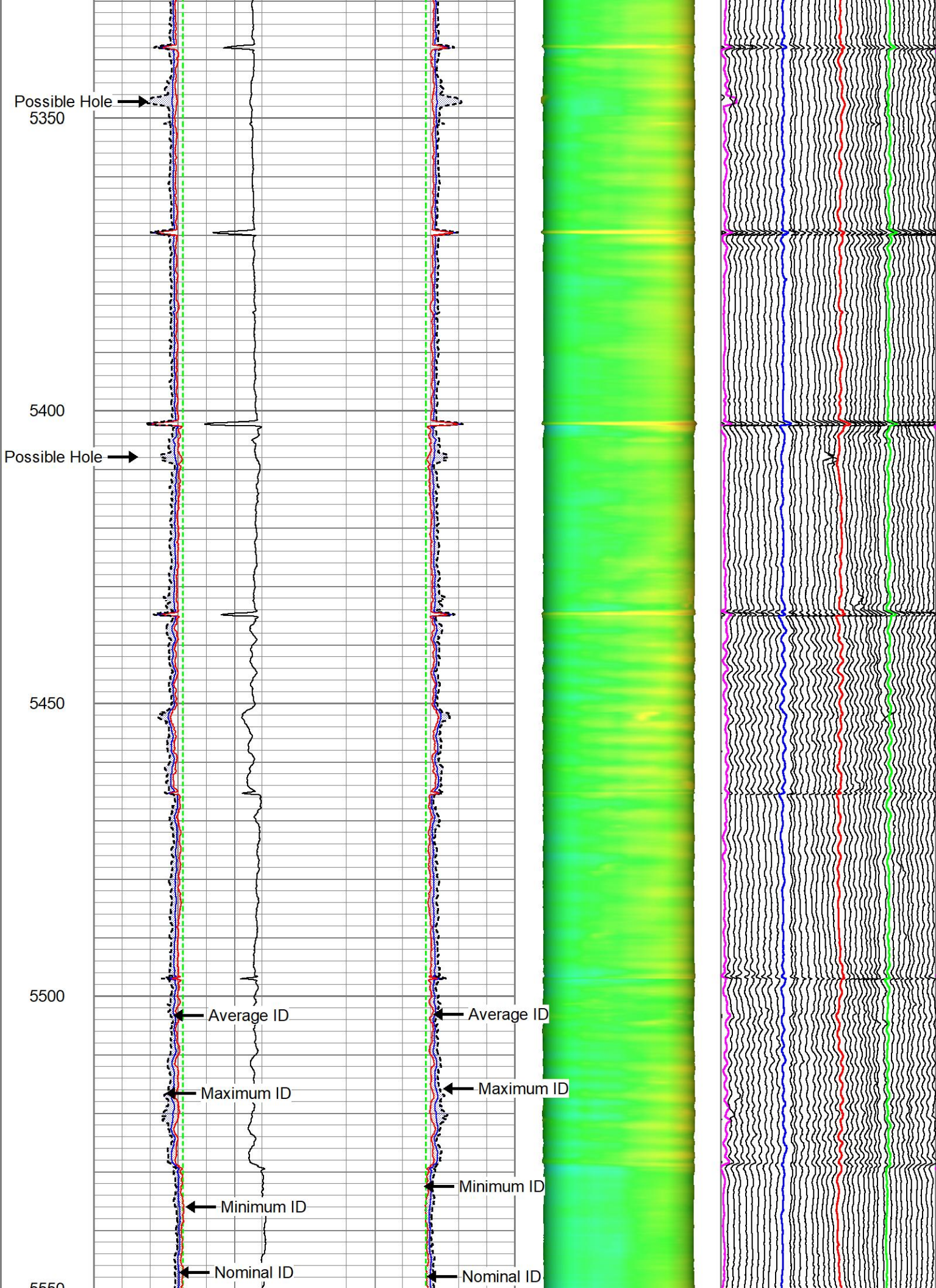
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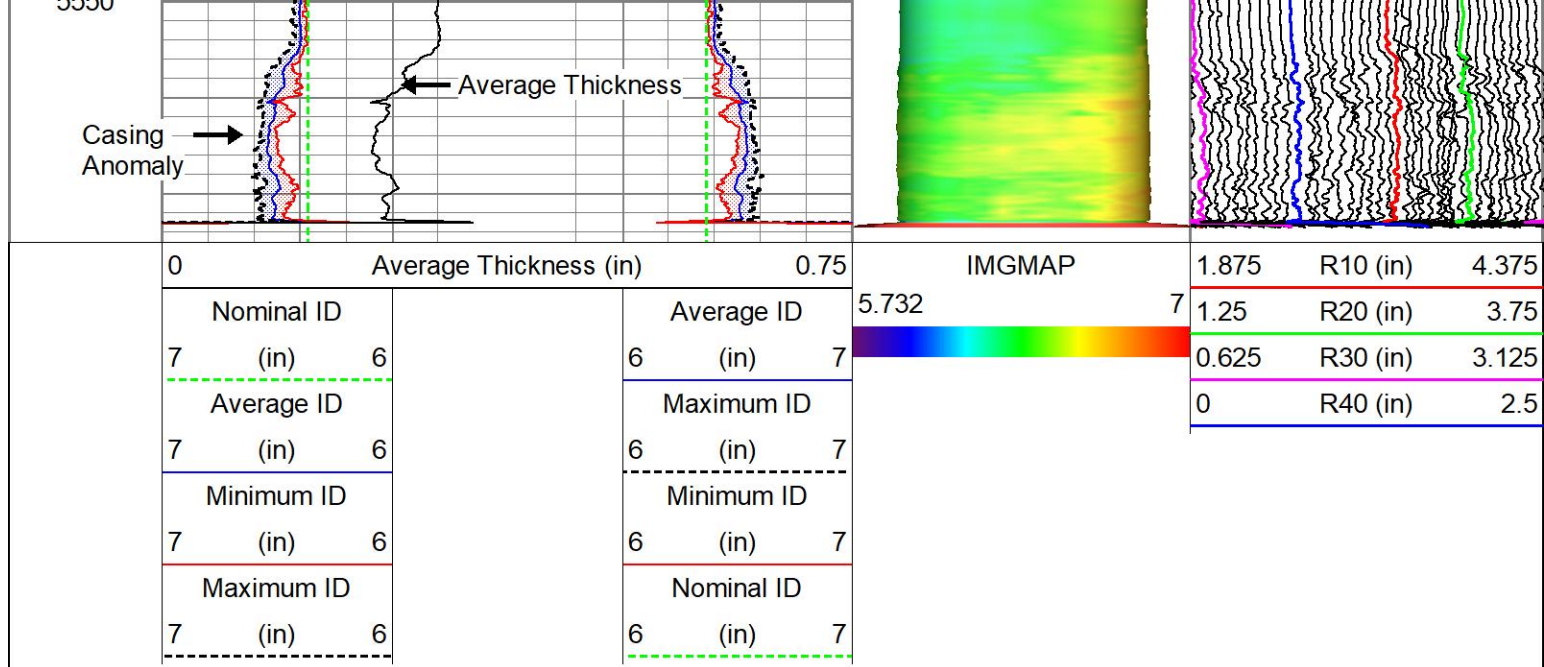
5050

5100









Log Variables

Database: c:\warrior\data\chevron_union_pacific_72x_31_mac\chevron_union_pacific_72x_31_mac8.db
Dataset: field/well/run1/passM.1/_vars_

Top - Bottom

BOREID in 8.75	BOTTEMP degF 162	CASEID in 6.366	CASEOD in 7	CASETHCK in 0.317	MinAPIWall in 0.277	PERFS 0	SRFTEMP degF 0
TDEPTH ft 0							

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEID : Casing I.D.
CASEOD : Casing O.D.
CASETHCK : Casing Thickness

MinAPIWall : Minimum API Wall Thickness
PERFS : Perforation Flag
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File: c:\warrior\data\chevron_union_pacific_72x_31_mac\chevron_union_pacific_72x_31_mac8.db
Dataset Pathname: pass11
Dataset Creation: Wed Aug 02 20:37:26 2017

40 Arm Multi Sensor Caliper Calibration Report

Serial Number: FW1411-56
Tool Model: 40
Performed: Wed Aug 02 11:18:16 2017

Ref ID:	3.00	4.00	5.00	6.00	7.00	in
Arm1	1.56	2.05	2.60	3.10	3.54	
Arm2	2.67	3.11	3.53	3.88	4.14	
Arm3	1.79	2.22	2.69	3.11	3.57	
Arm4	1.62	2.06	2.55	2.98	3.46	
Arm5	1.60	2.05	2.57	3.04	3.50	
Arm6	2.26	2.74	3.23	3.62	3.97	
Arm7	1.66	2.15	2.68	3.16	3.69	
Arm8	1.45	1.89	2.38	2.83	3.33	

Arm9	1.53	1.98	2.49	2.96	3.47
Arm10	1.77	2.22	2.71	3.17	3.64
Arm11	1.73	2.17	2.66	3.11	3.58
Arm12	1.83	2.27	2.75	3.19	3.64
Arm13	1.42	1.92	2.47	3.01	3.55
Arm14	1.67	2.18	2.73	3.26	3.78
Arm15	1.37	1.87	2.41	2.97	3.50
Arm16	1.42	1.93	2.47	3.00	3.50
Arm17	1.68	2.14	2.62	3.13	3.60
Arm18	1.78	2.25	2.73	3.22	3.67
Arm19	1.41	1.87	2.35	2.88	3.36
Arm20	1.45	1.94	2.43	2.96	3.44
Arm21	1.51	2.00	2.49	3.03	3.50
Arm22	1.74	2.19	2.63	3.12	3.53
Arm23	1.57	2.08	2.57	3.12	3.57
Arm24	1.80	2.32	2.81	3.33	3.74
Arm25	1.89	2.37	2.82	3.30	3.70
Arm26	1.78	2.25	2.70	3.19	3.60
Arm27	1.52	2.06	2.57	3.13	3.60
Arm28	1.30	1.87	2.40	2.98	3.47
Arm29	1.45	1.95	2.43	2.96	3.43
Arm30	0.77	1.25	1.72	2.27	2.79
Arm31	1.46	2.02	2.56	3.11	3.60
Arm32	1.59	2.11	2.60	3.11	3.55
Arm33	1.62	2.15	2.66	3.18	3.64
Arm34	1.81	2.30	2.77	3.25	3.67
Arm35	1.61	2.09	2.55	3.01	3.47
Arm36	1.76	2.23	2.69	3.15	3.58
Arm37	1.42	2.01	2.59	3.13	3.66
Arm38	1.45	2.03	2.61	3.14	3.64
Arm39	1.21	1.76	2.33	2.87	3.44
Arm40	1.42	2.00	2.58	3.10	3.61

* Bad

PROBE verifications Calibration Report

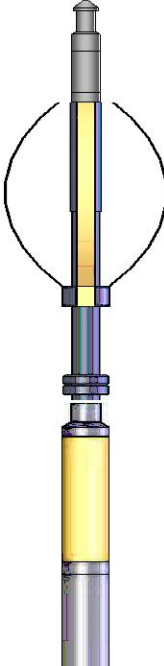
Performed:	Pre Verification Mon Jul 31 14:46:04 2017	Post Verification	Casing Check	
Ref ID:	7.00	0.00	0.00	in
Min.	6.97	0.00	0.00	in
Max.	7.00	0.00	0.00	in
Avg.	6.98	0.00	0.00	in
Dia1	6.97	0.00	0.00	in
Dia2	7.00	0.00	0.00	in
Dia3	6.97	0.00	0.00	in
Dia4	6.98	0.00	0.00	in
Dia5	6.99	0.00	0.00	in
Dia6	6.97	0.00	0.00	in
Dia7	6.99	0.00	0.00	in
Dia8	7.00	0.00	0.00	in
Dia9	6.99	0.00	0.00	in
Dia10	6.99	0.00	0.00	in
Dia11	6.99	0.00	0.00	in
Dia12	6.97	0.00	0.00	in
Dia13	6.99	0.00	0.00	in
Dia14	6.98	0.00	0.00	in
Dia15	6.99	0.00	0.00	in
Dia16	6.99	0.00	0.00	in
Dia17	6.98	0.00	0.00	in
Dia18	6.97	0.00	0.00	in
Dia19	7.00	0.00	0.00	in
Dia20	6.98	0.00	0.00	in

Performed:	Wed Aug 17 10:32:31 2016				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3581.03	3540.47	-1.00	1.00	gee
Y Accelerometer	-3561.33	3545.90	-1.00	1.00	gee
Z Accelerometer	81.30	3631.20	0.00	1.00	gee

Gamma Ray Calibration Report

Type / Serial: GCT_C3 / FW1304-53

SHOP CALIBRATION		Fri Sep 16 04:19:49 2016			
	Counts/Sec.	Gain	Offset	Jig	Units
Background	4.8				cps
Calibrator	200.0				cps
		0.9487			GAPI/cps
PRIMARY VERIFICATION		Tue Oct 22 13:14:26 2013			
Background	29.3				cps
Calibrator	226.5				cps
Difference				197.2	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1.6875CHD 1 11/16" Cable Head	1.00	1.69	10.00
			CENT-Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
DCCL CCL	13.46 13.46					
GR	11.96		GR-GCT_C3 (FW1304-53)	4.77	2.75	50.00

[illegible]