



County Weld State Colorado

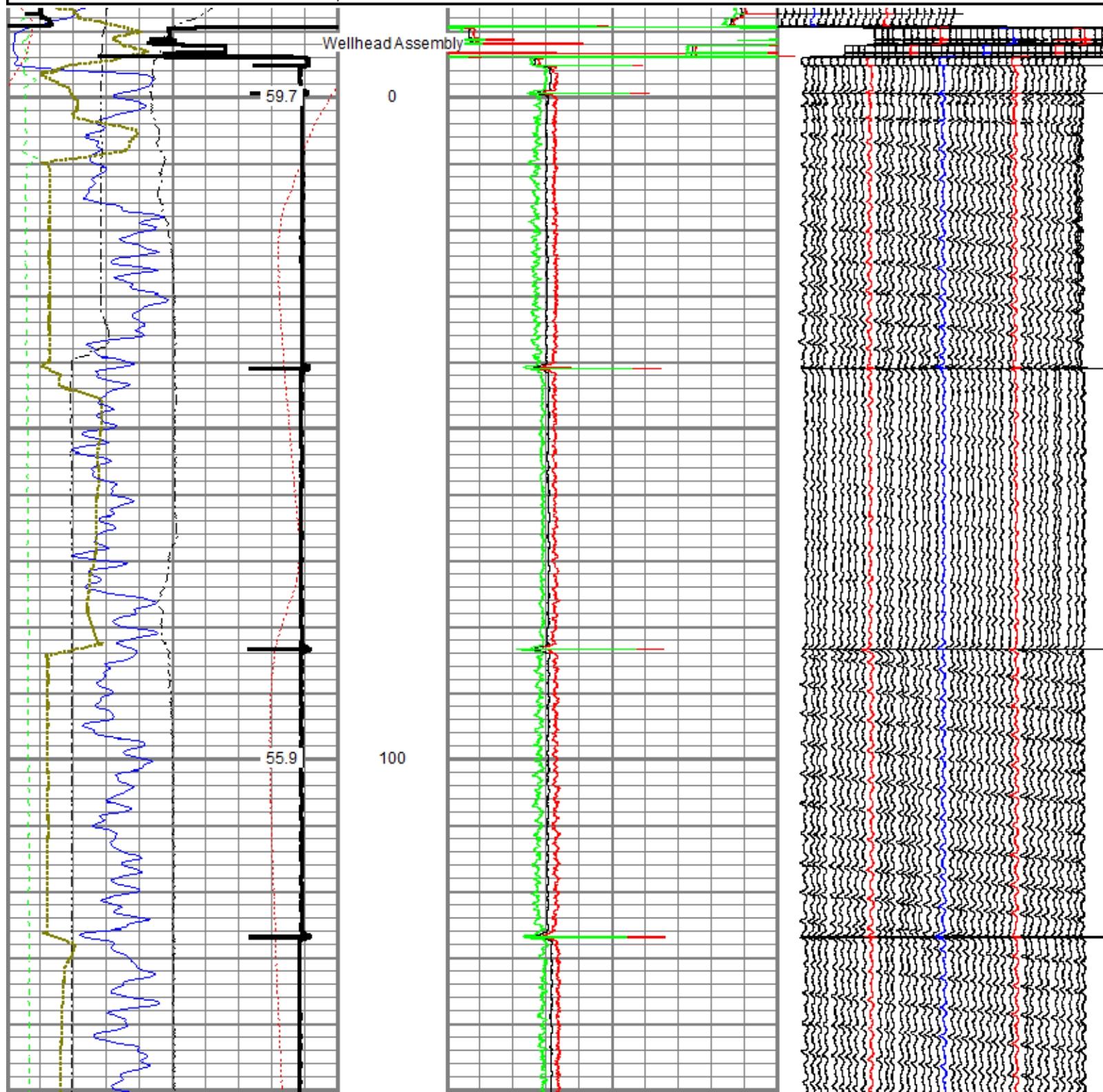
4 1/2	11.6
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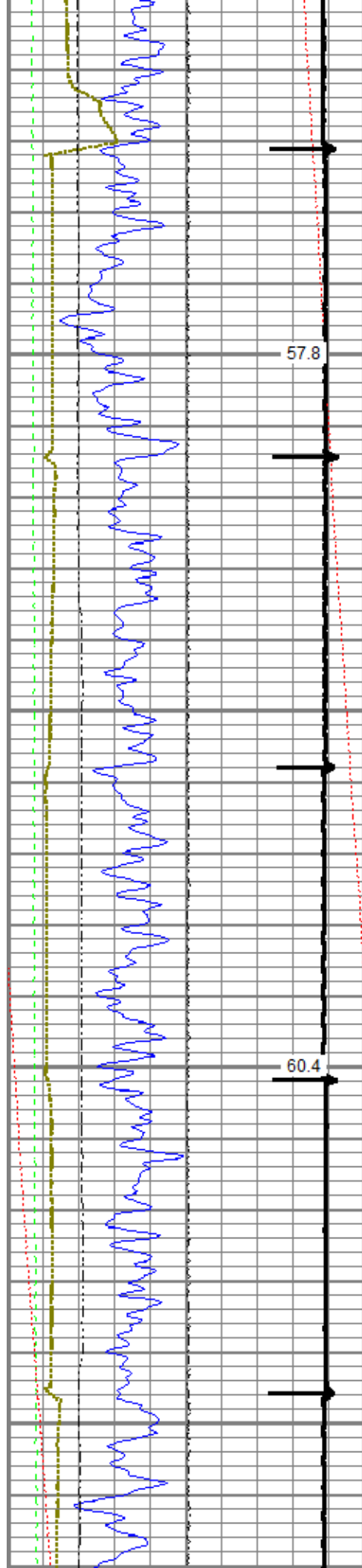
Recorded With 2800 PSI Surface-Induced Pressure

Database File	anadarko_wagner 1n-e10hz\0512343475_anadarko_wagner 1n-e10hz_mit_12-08-17.db
Dataset Pathname	pass4.2
Presentation Format	ros_70mit40sx
Dataset Creation	Fri Dec 08 15:20:44 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	120
-100	Line Speed (ft/min)	100
-10	Deviation (deg)	90
0	Line Tension (lb)	2000
-2	Differential Temperature (degF)	2
0	Temperature (degF)	20
Casing Collar Locator		

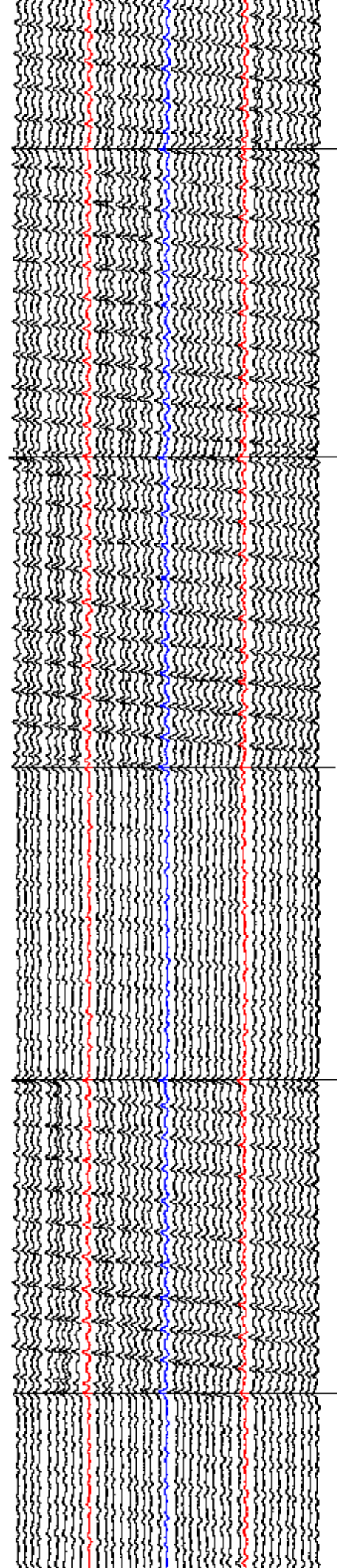
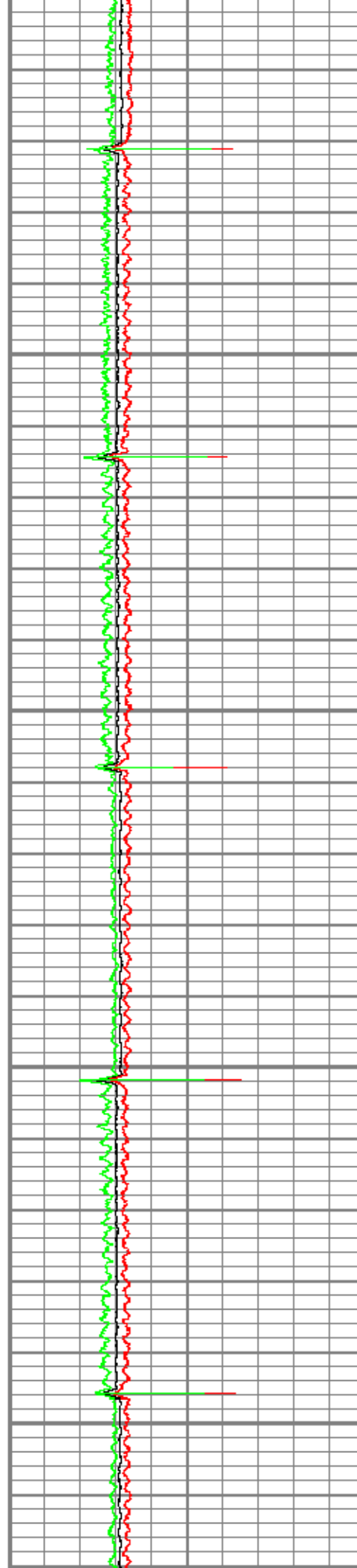
6	Average Diameter (in)	7	Caliper #10
6	Maximum Diameter (in)	7	Caliper #20
6	Minimum Diameter (in)	7	Caliper #30

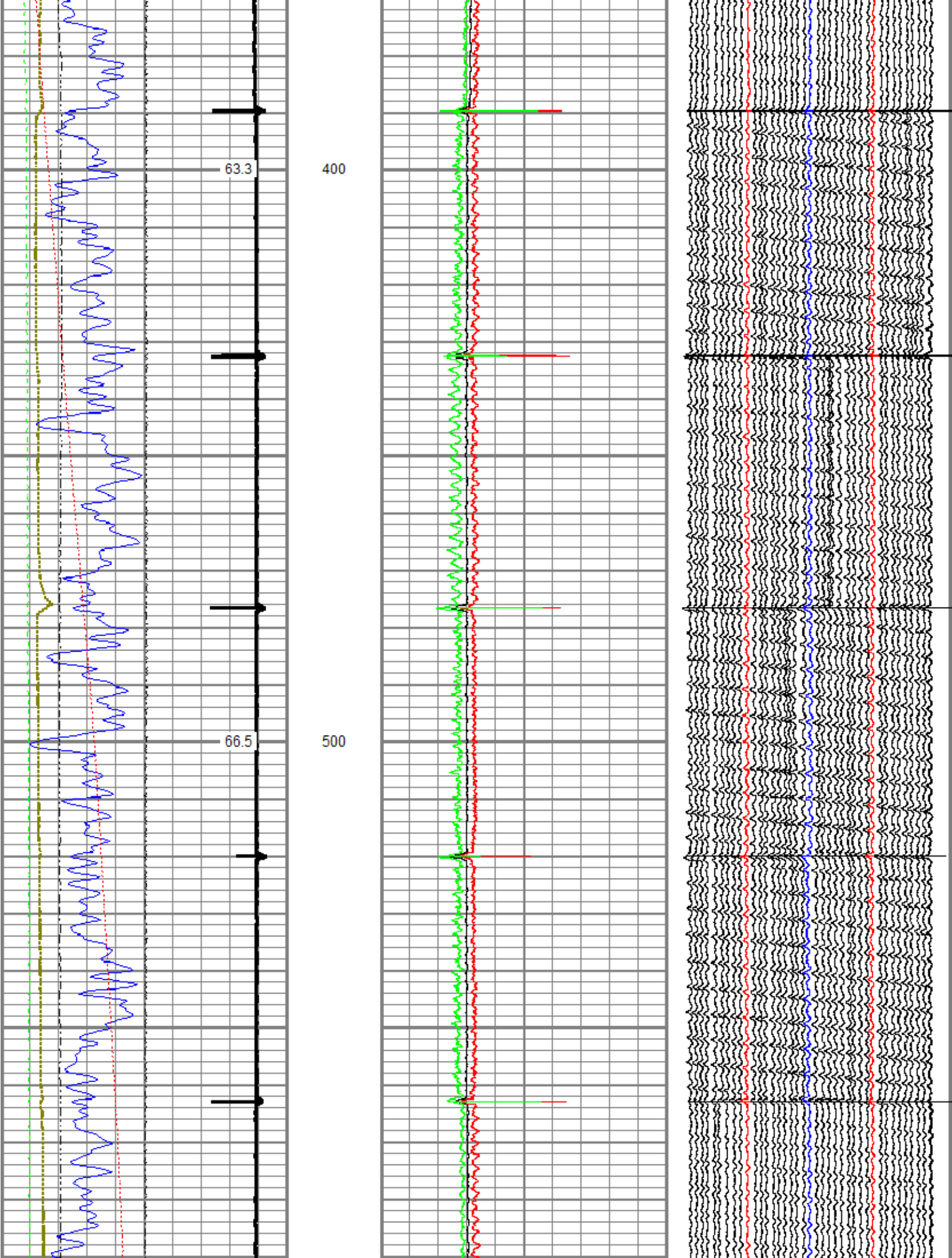


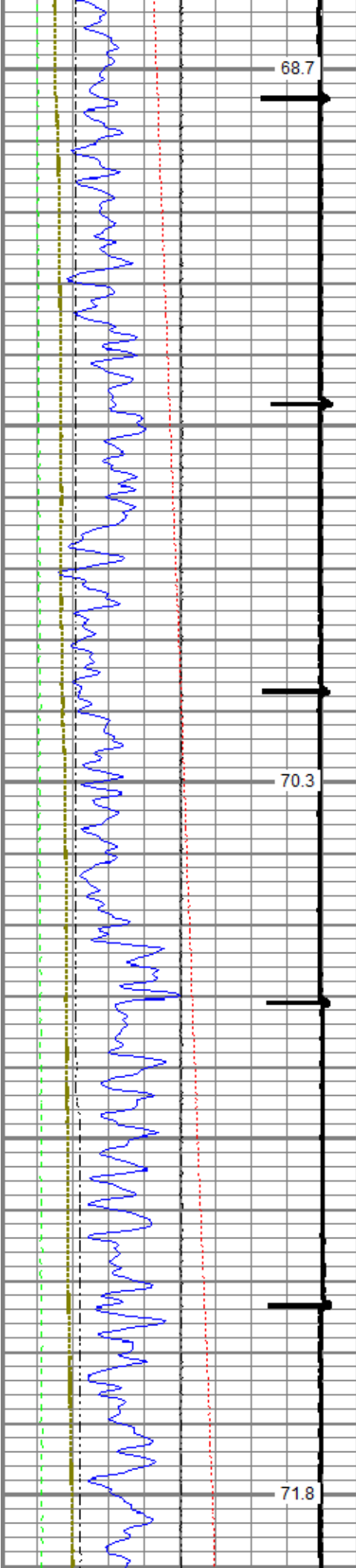


200

300



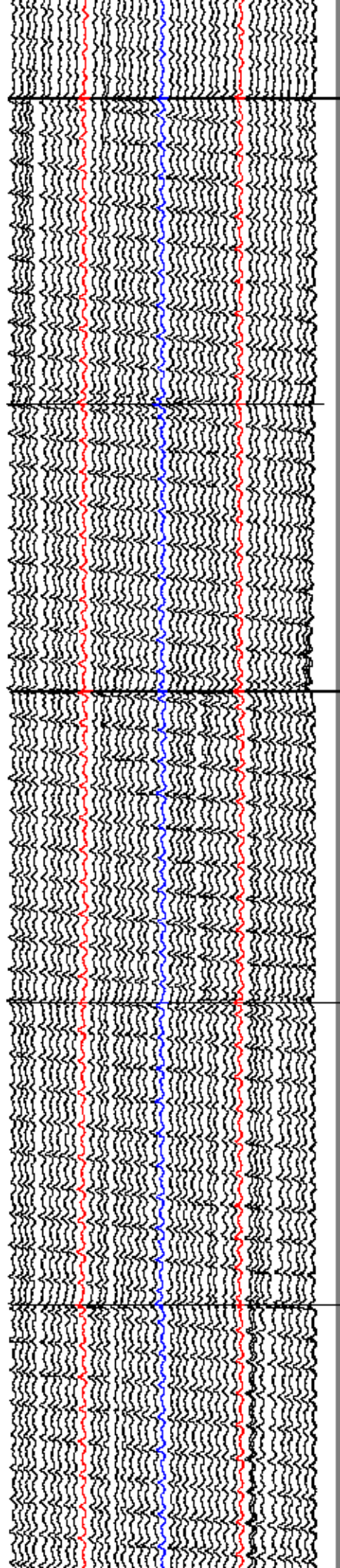
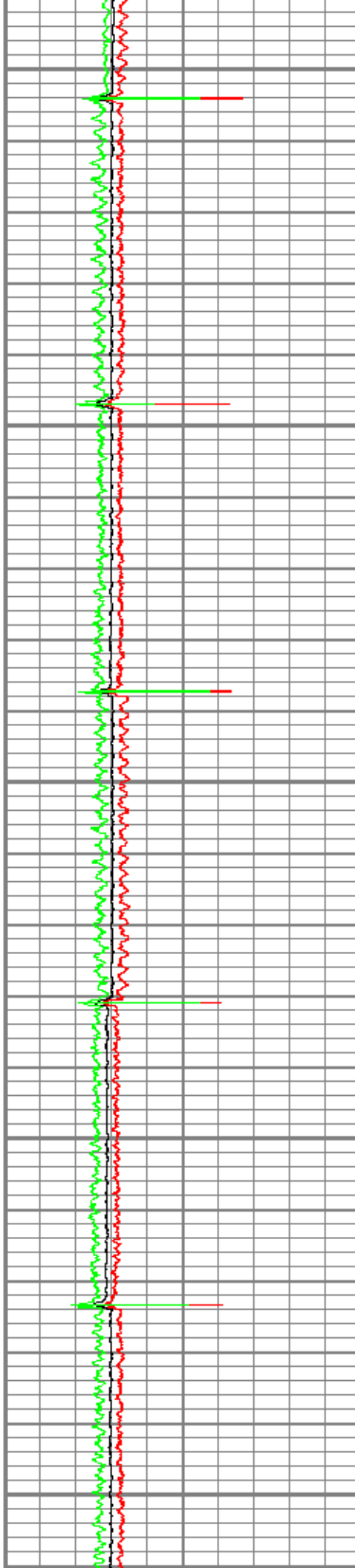


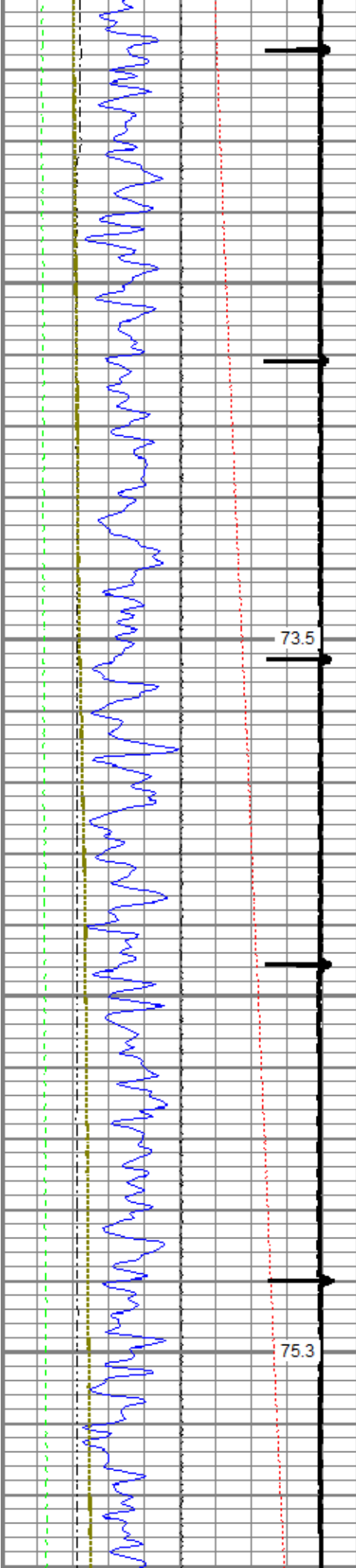


600

700

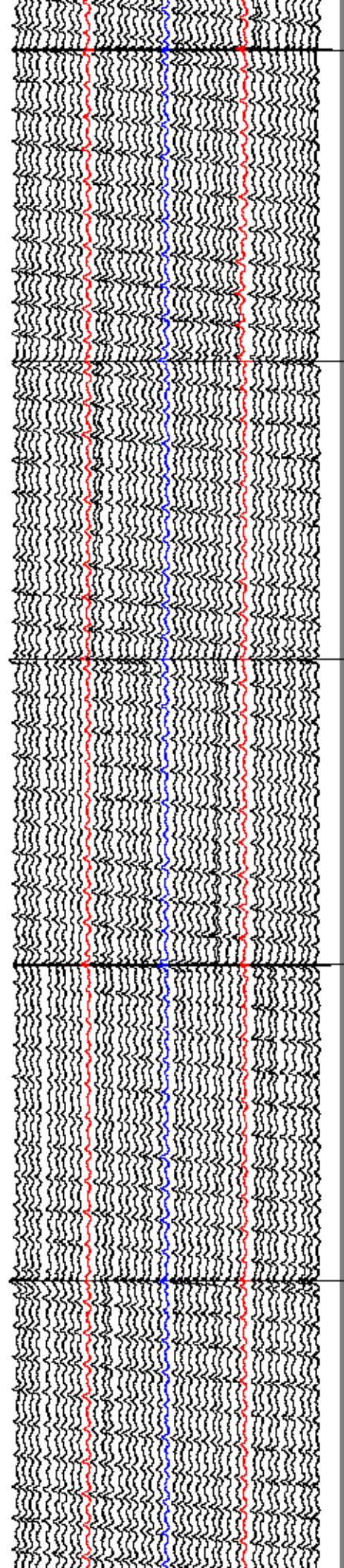
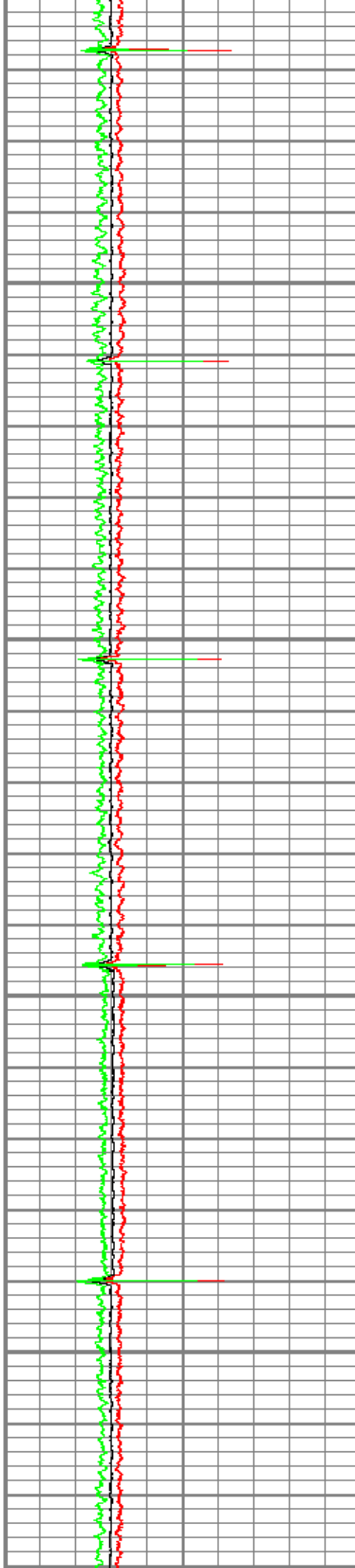
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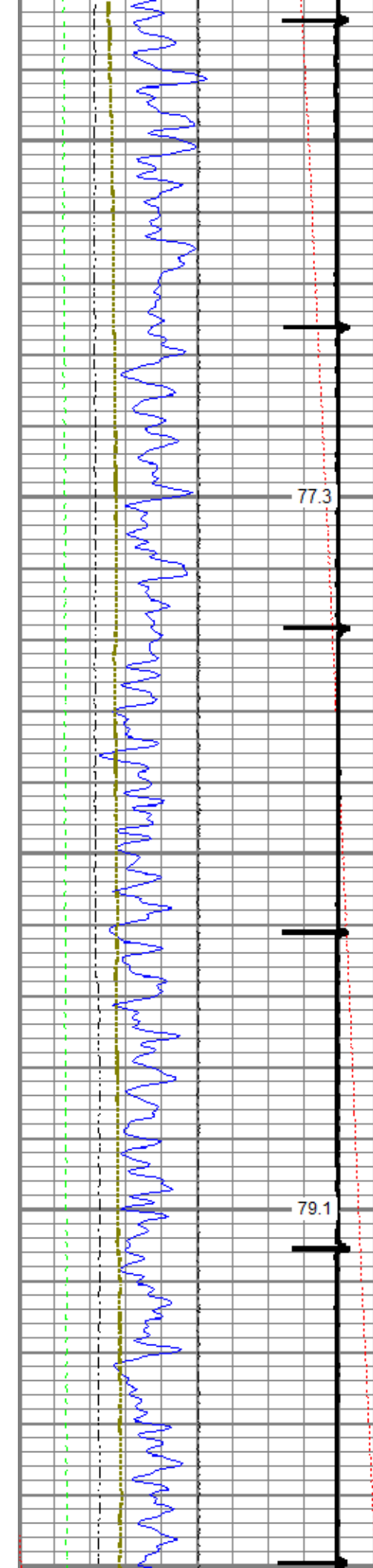




900

1000



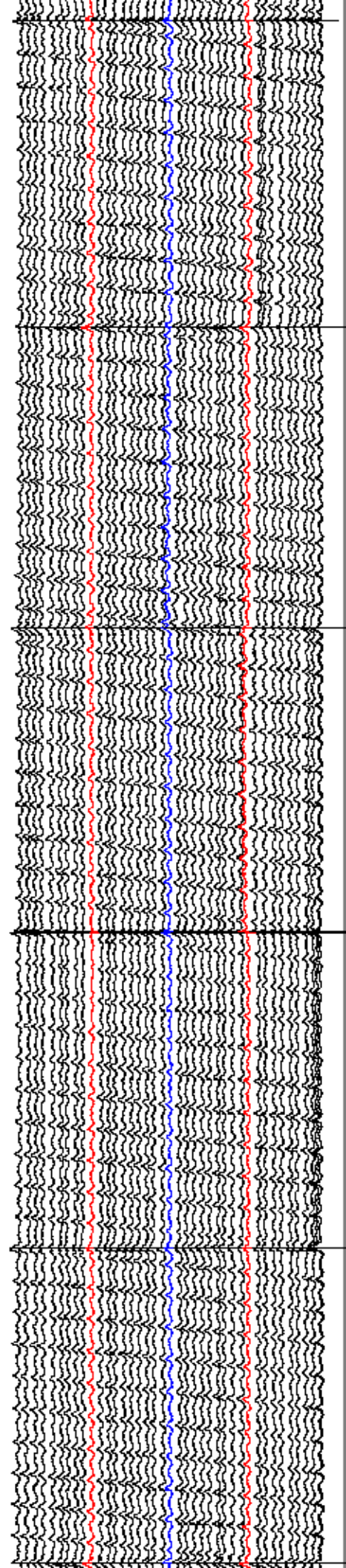
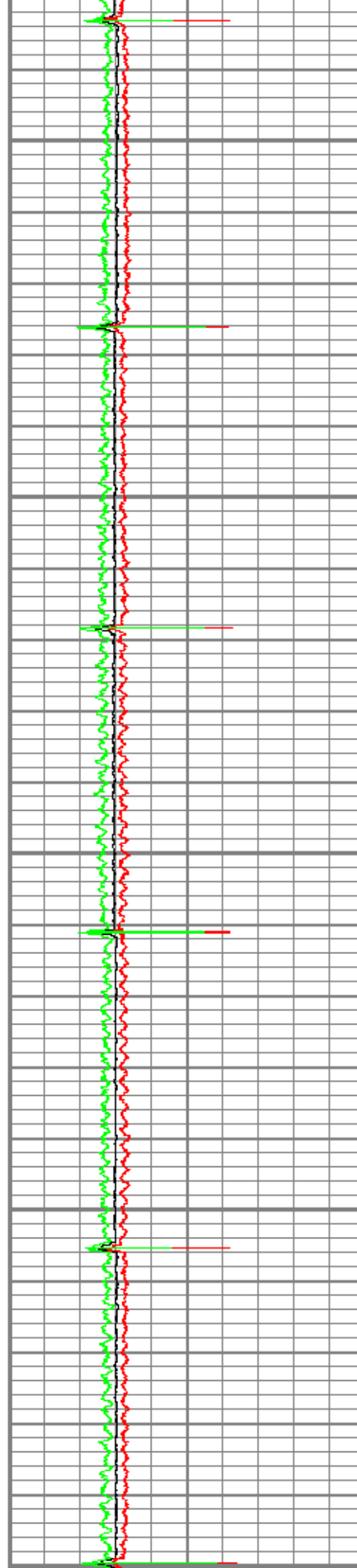


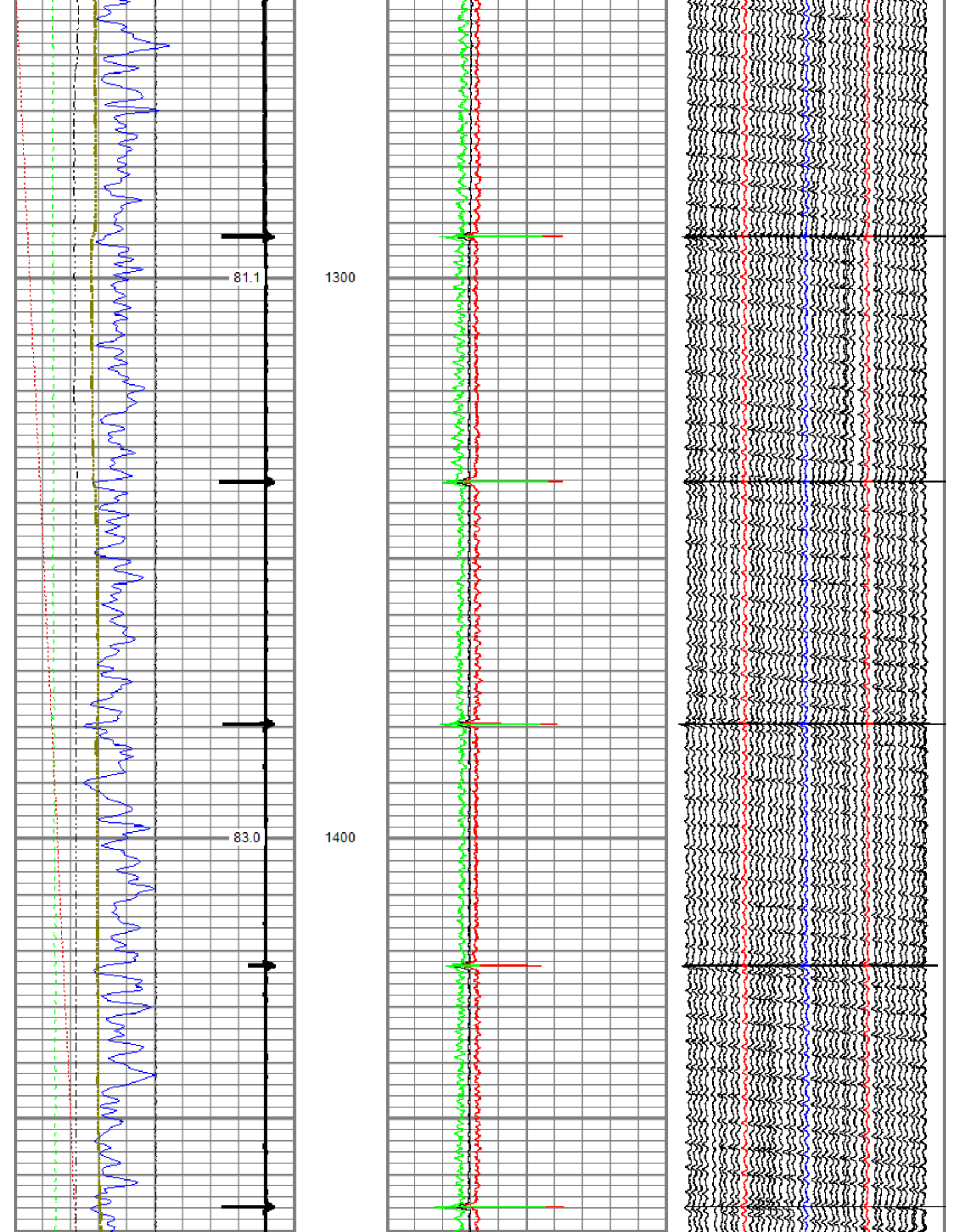
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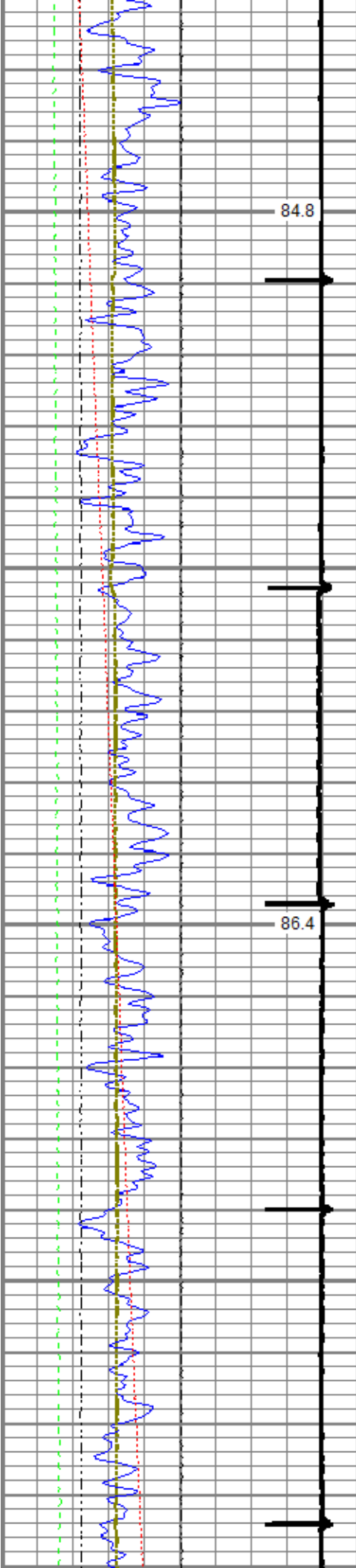
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79.1

1200

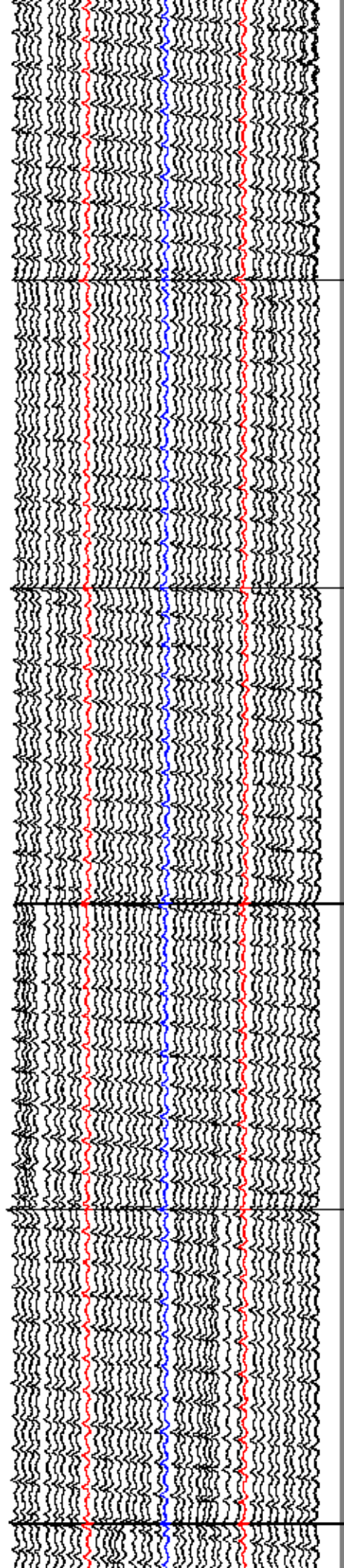
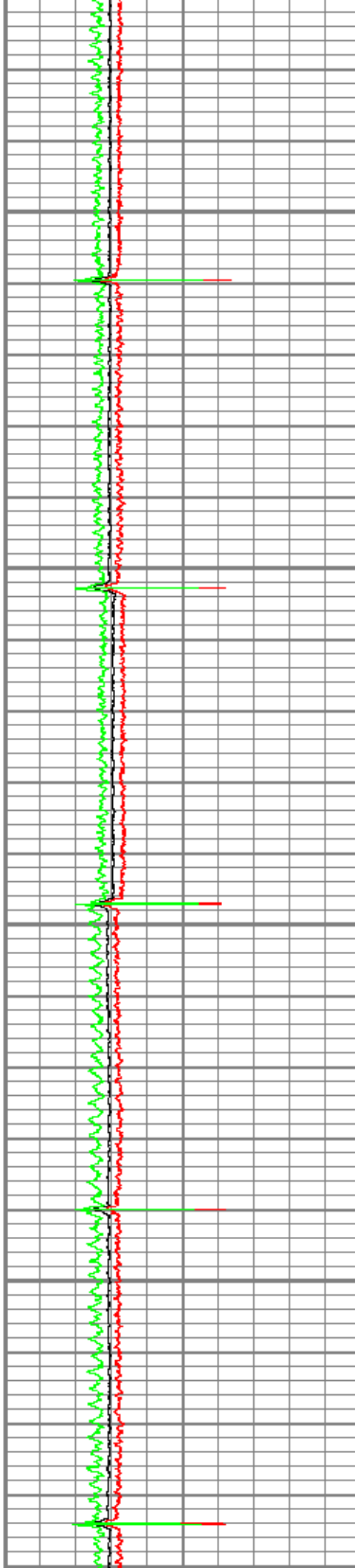


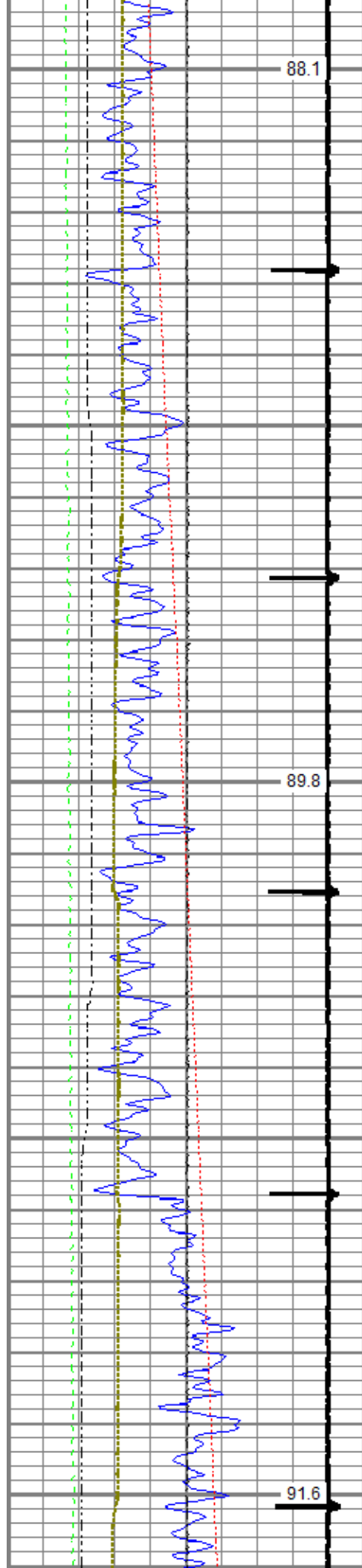




1500

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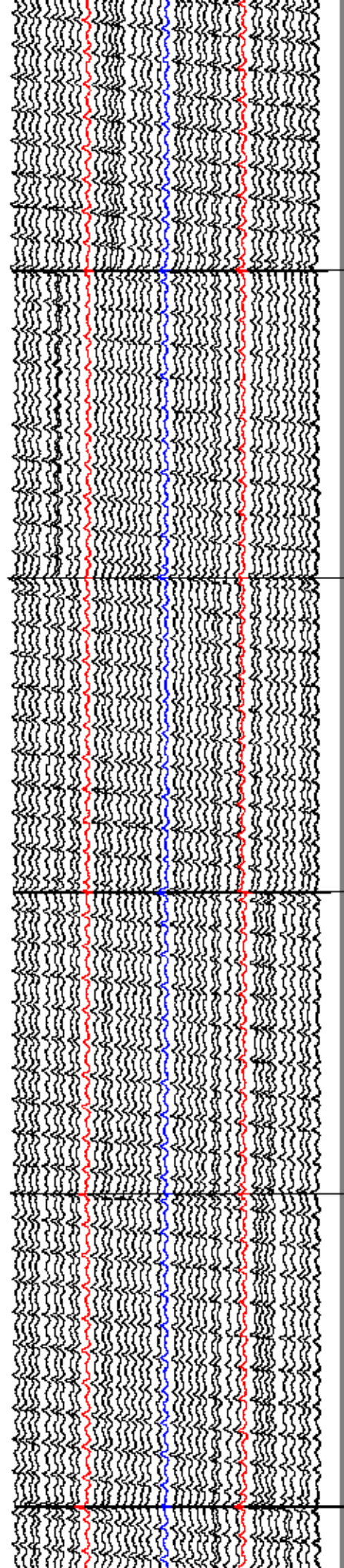
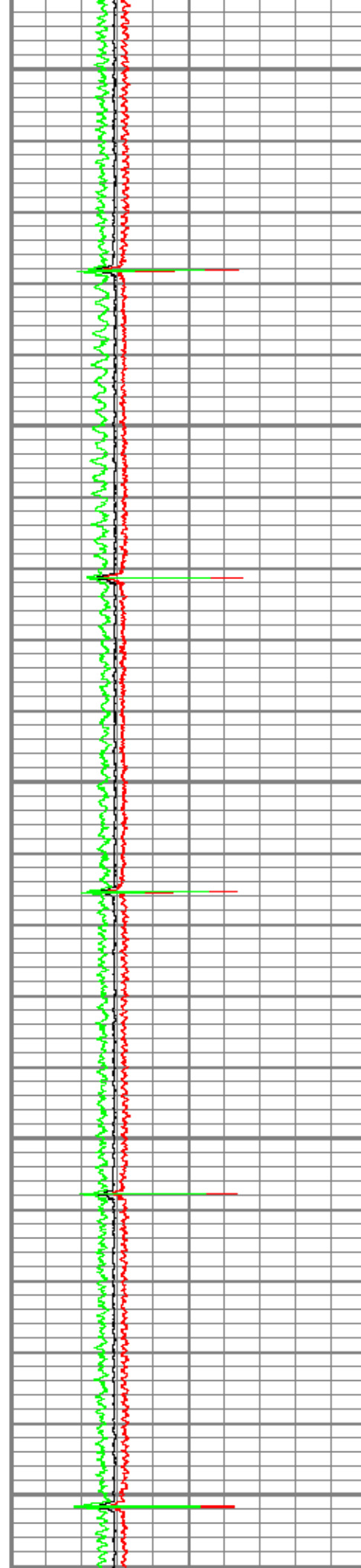


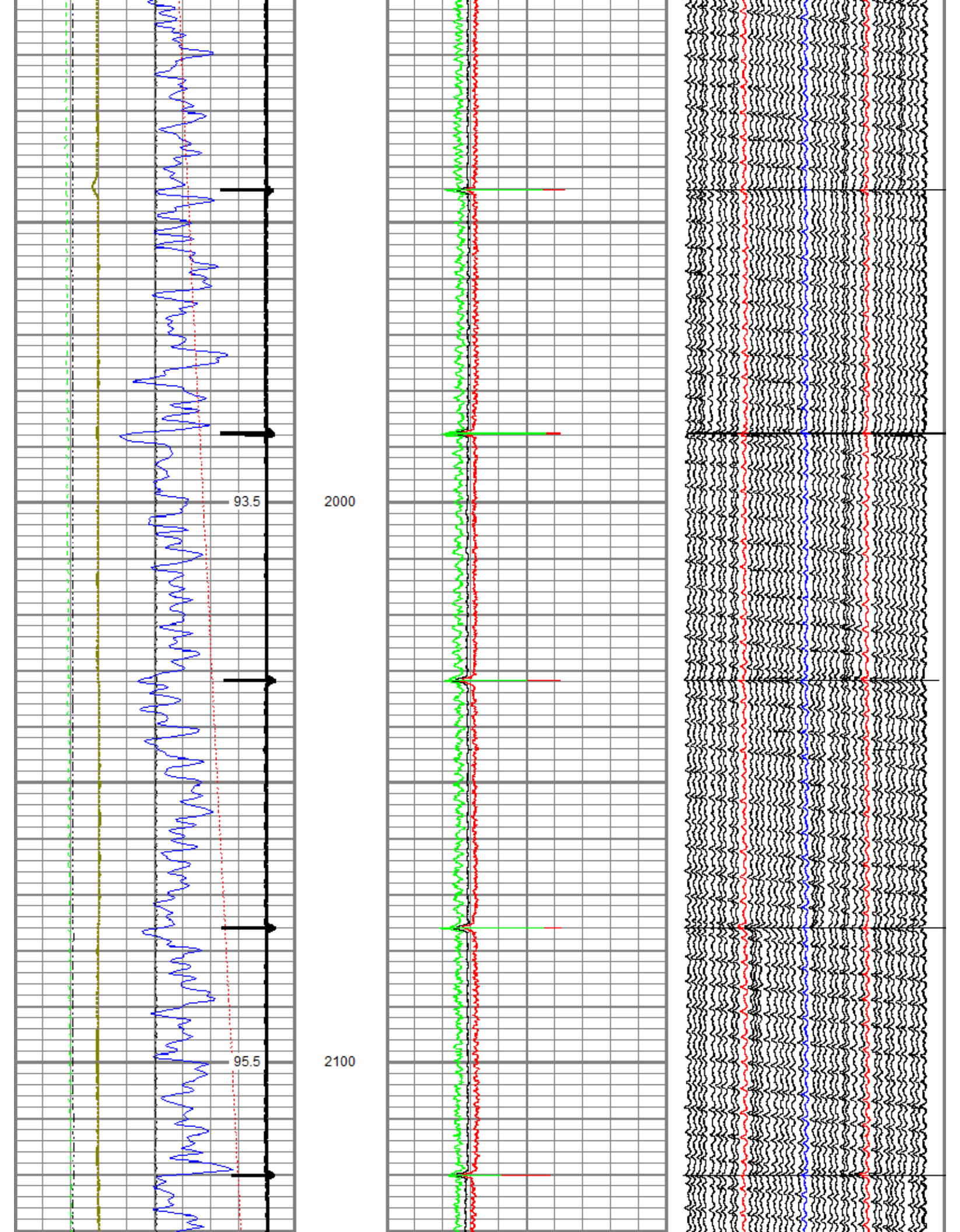


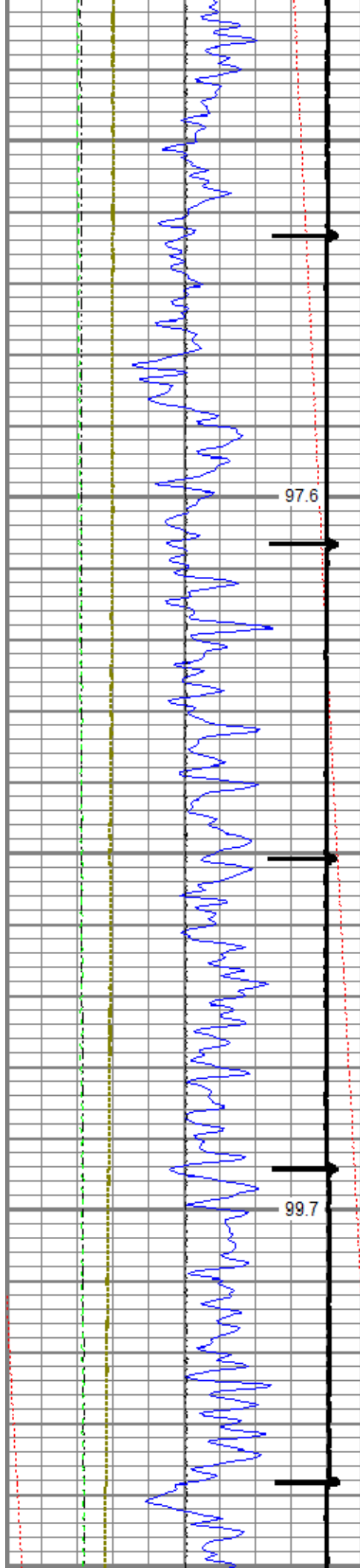
1700

1800

1900





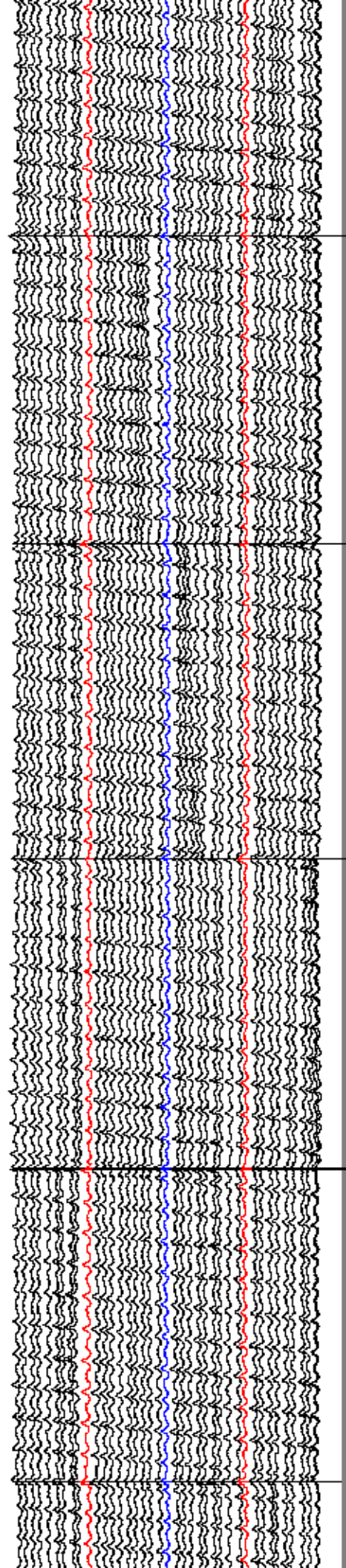
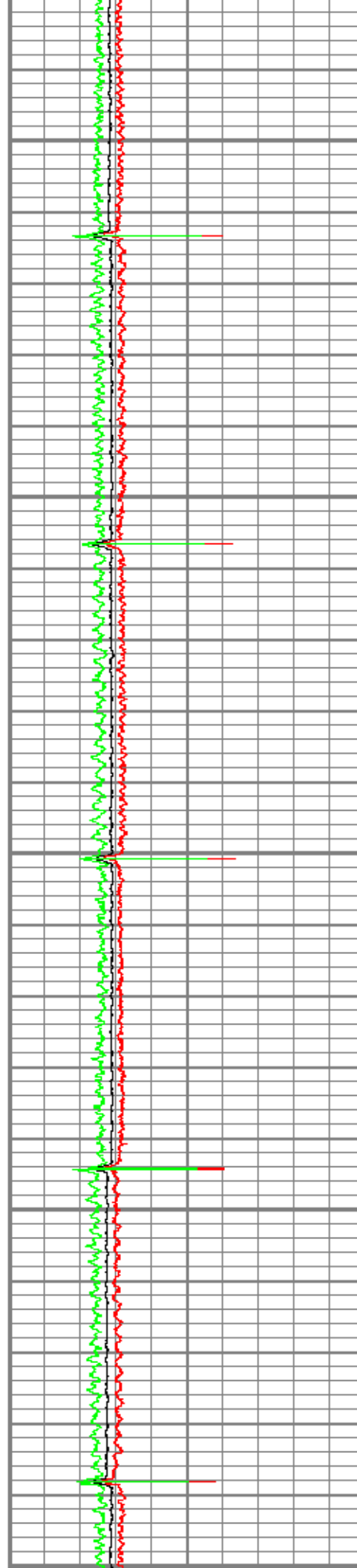


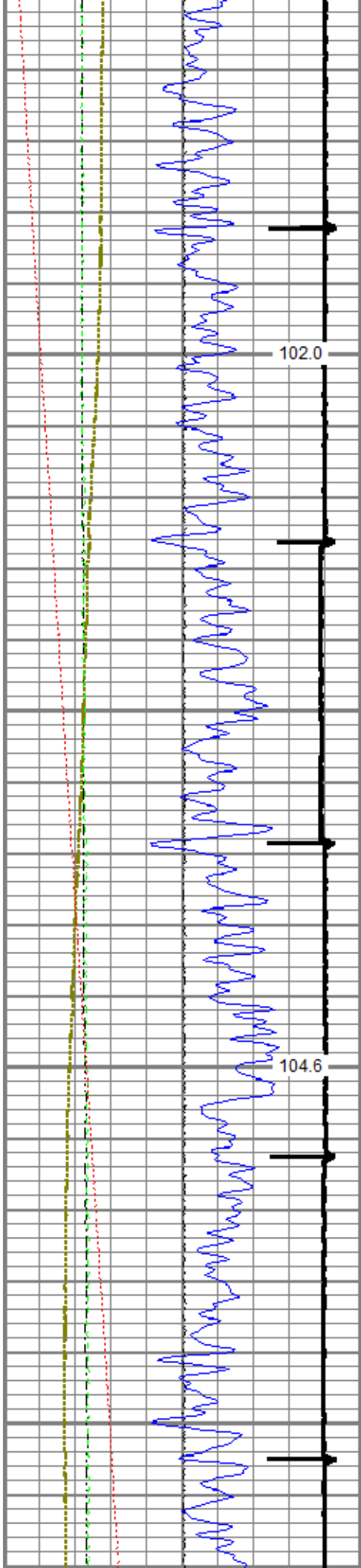
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2200

99.7

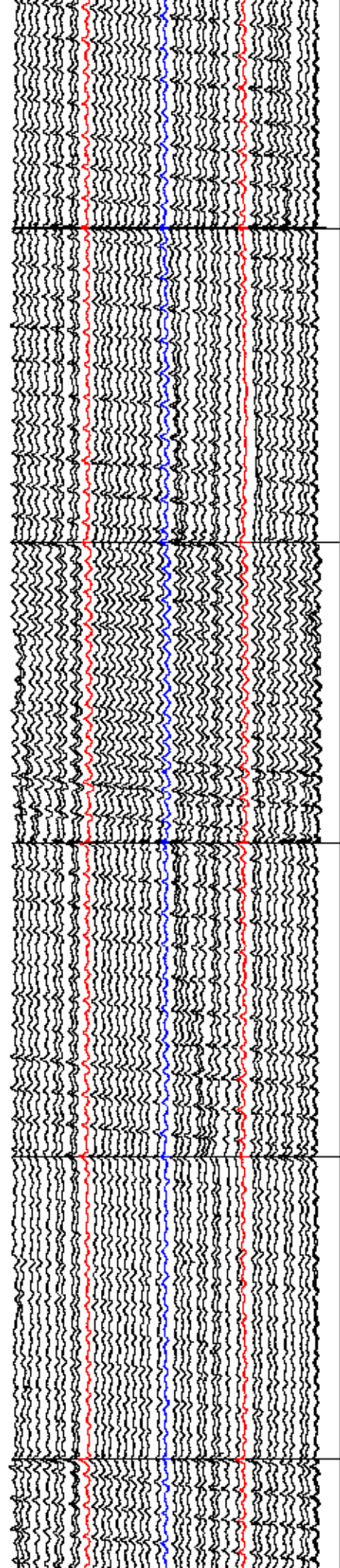
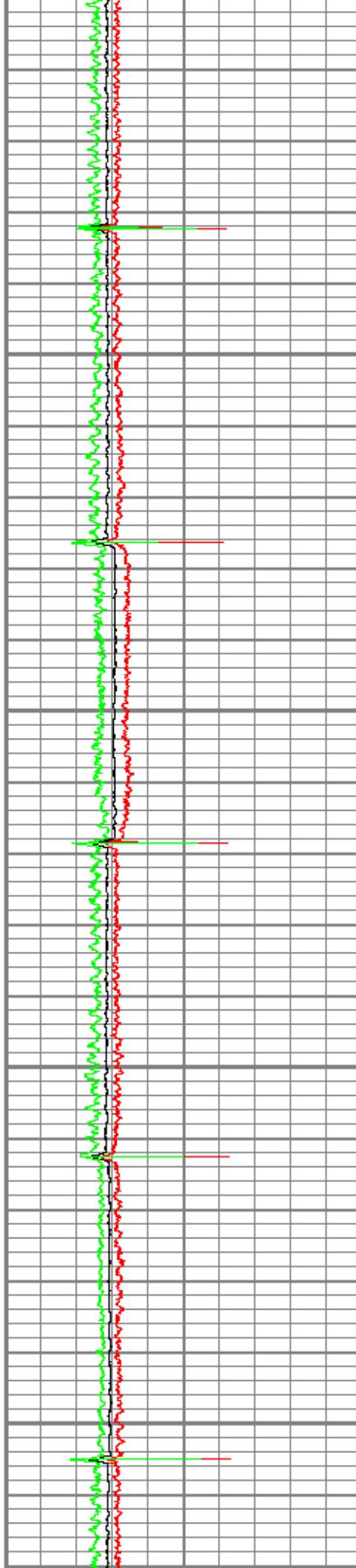
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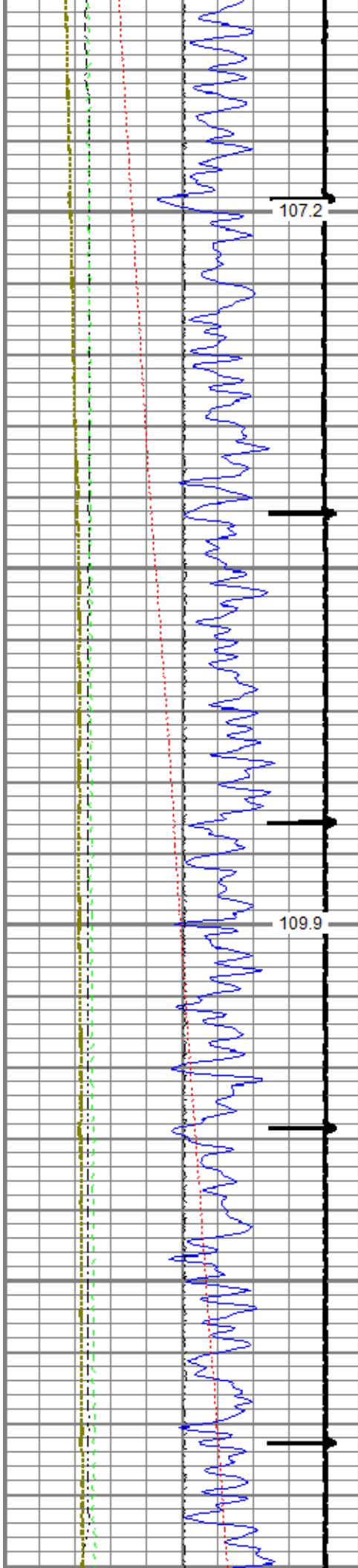




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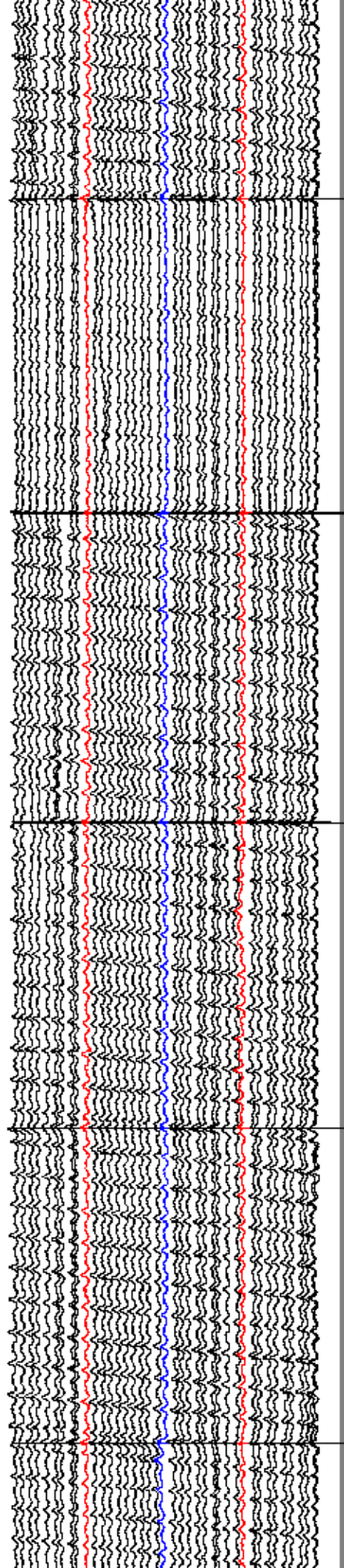
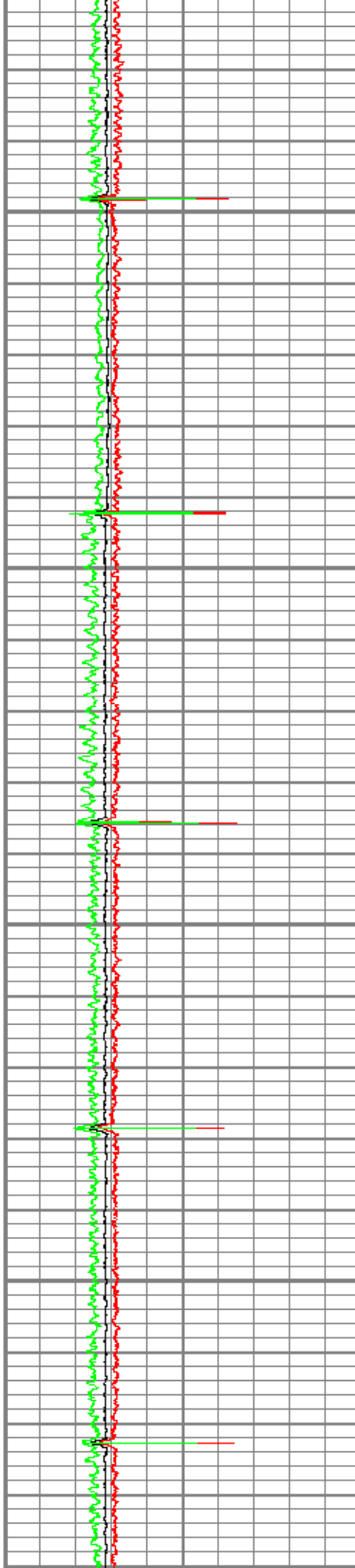
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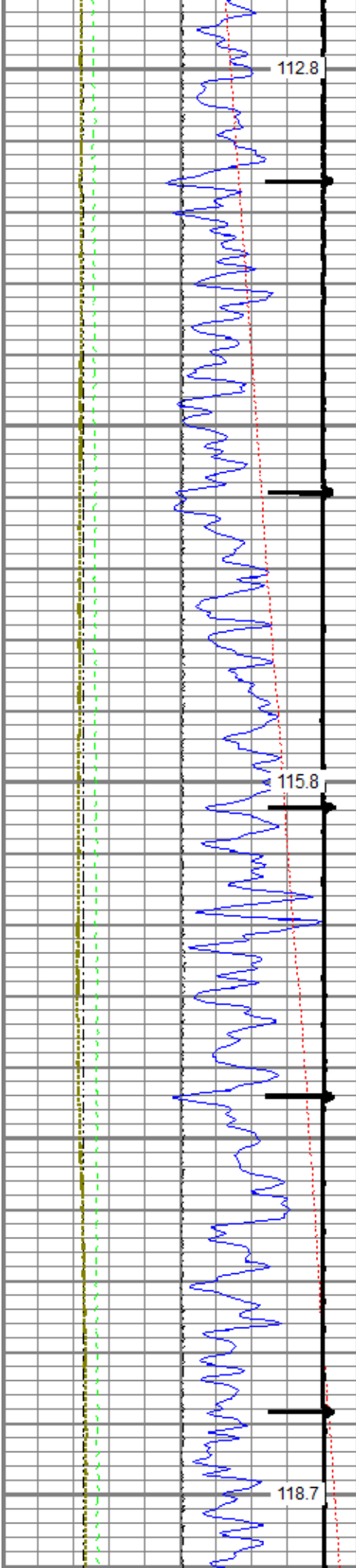




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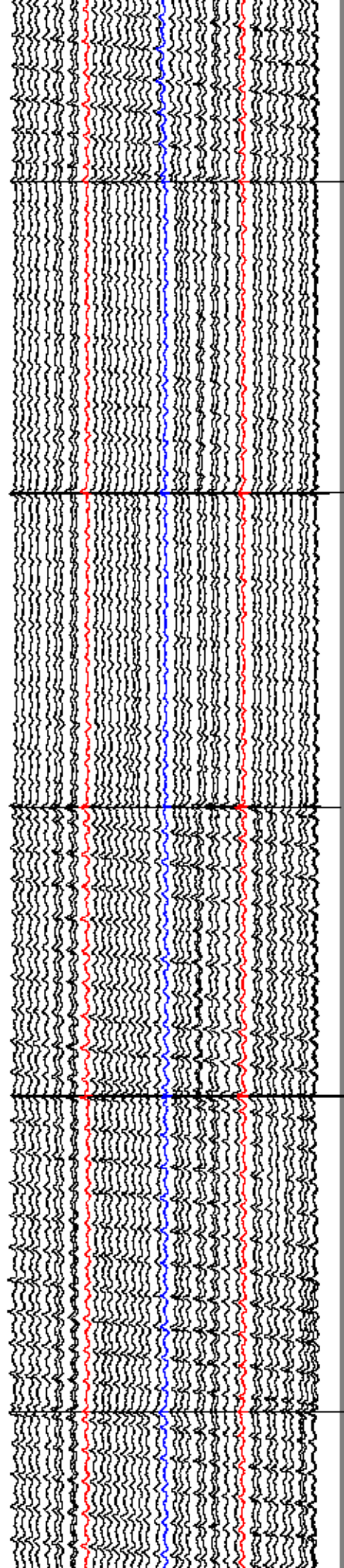
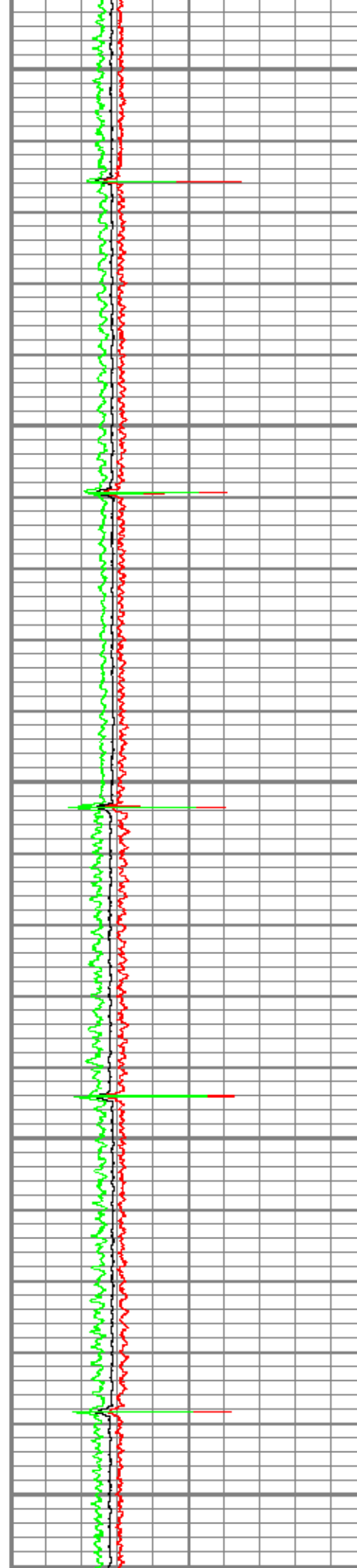


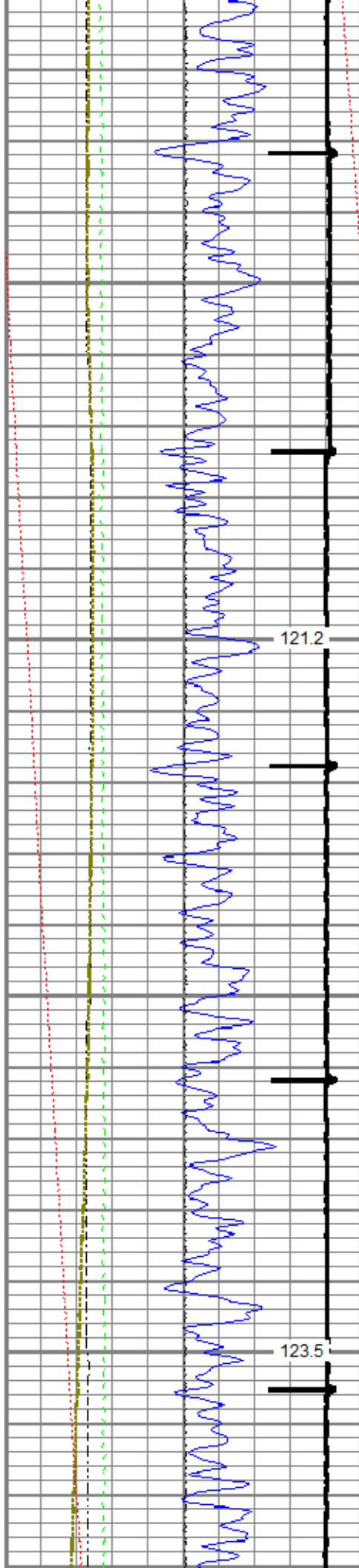


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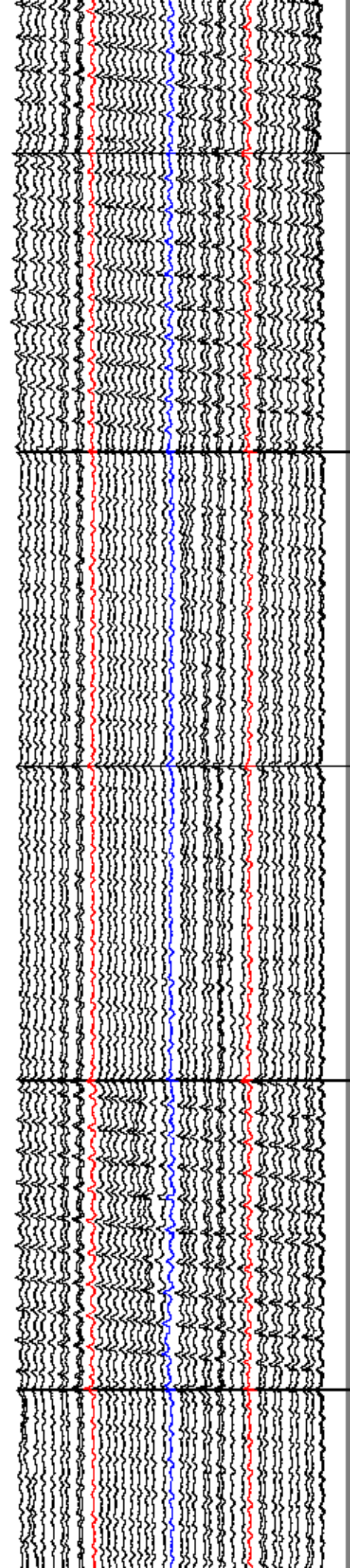
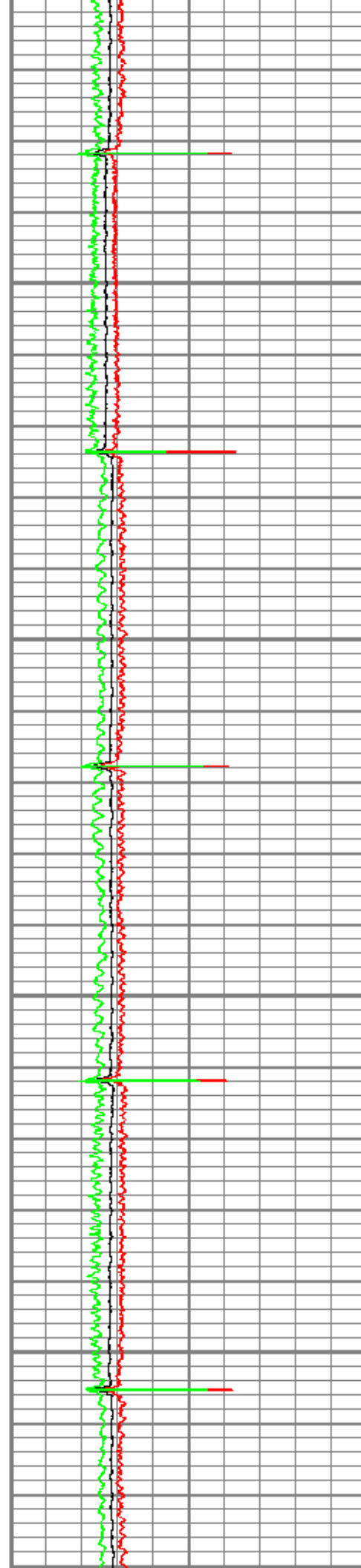
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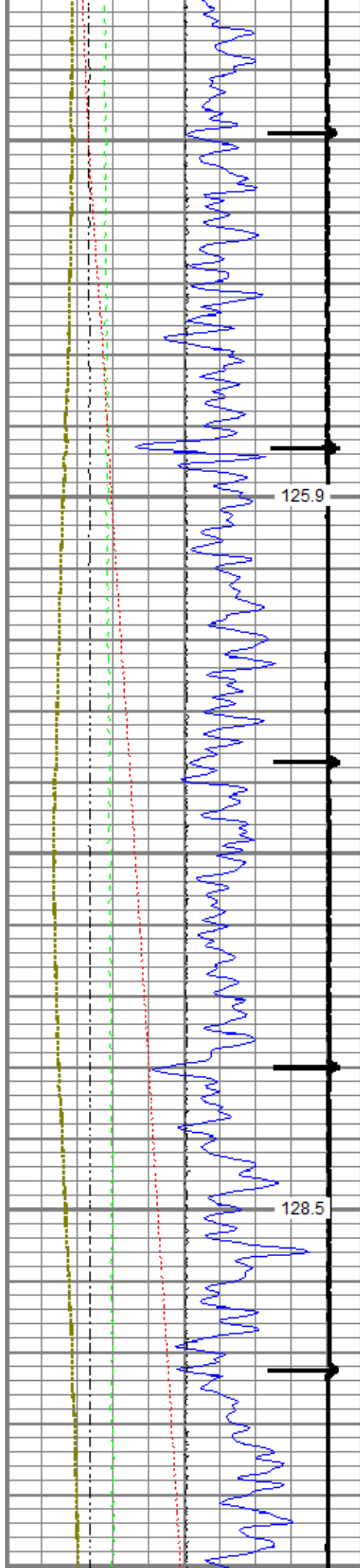




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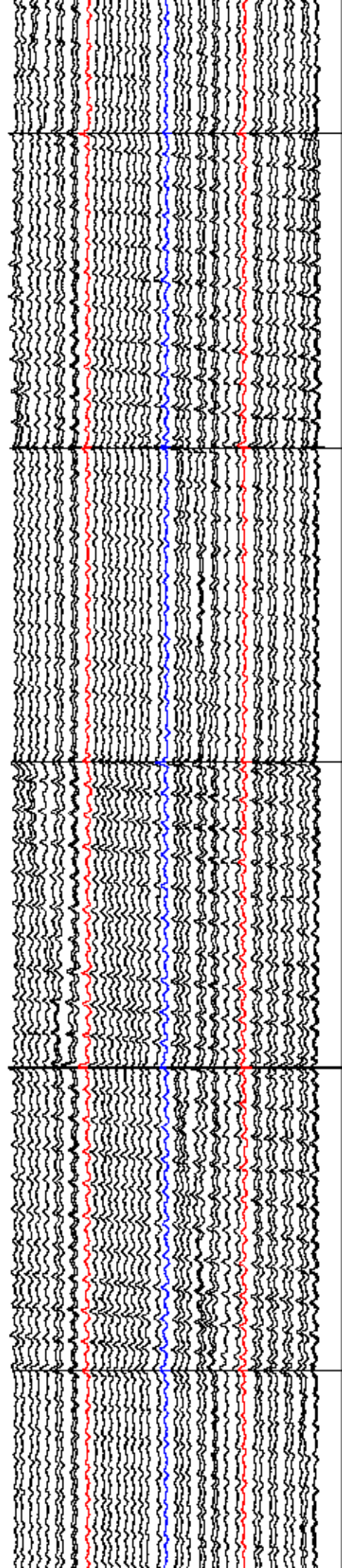
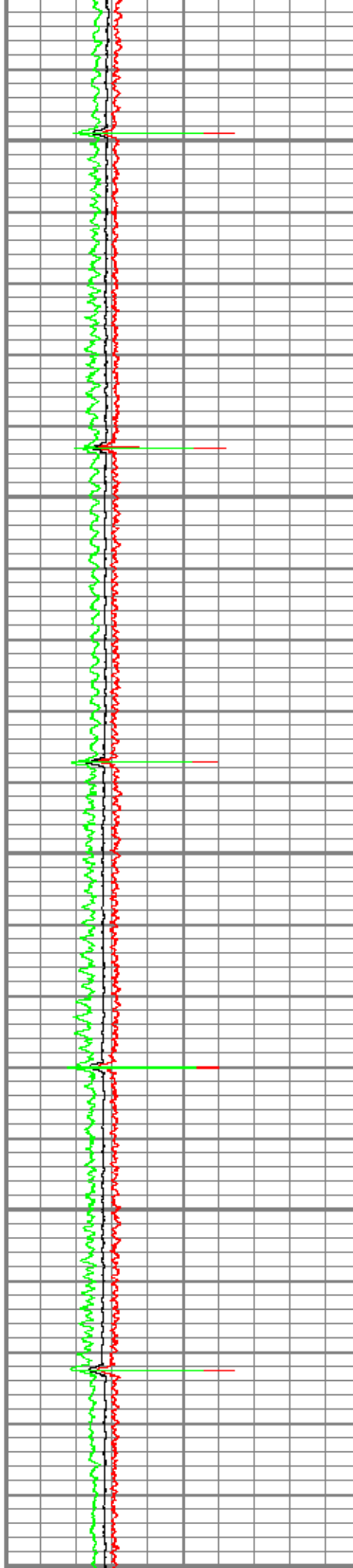
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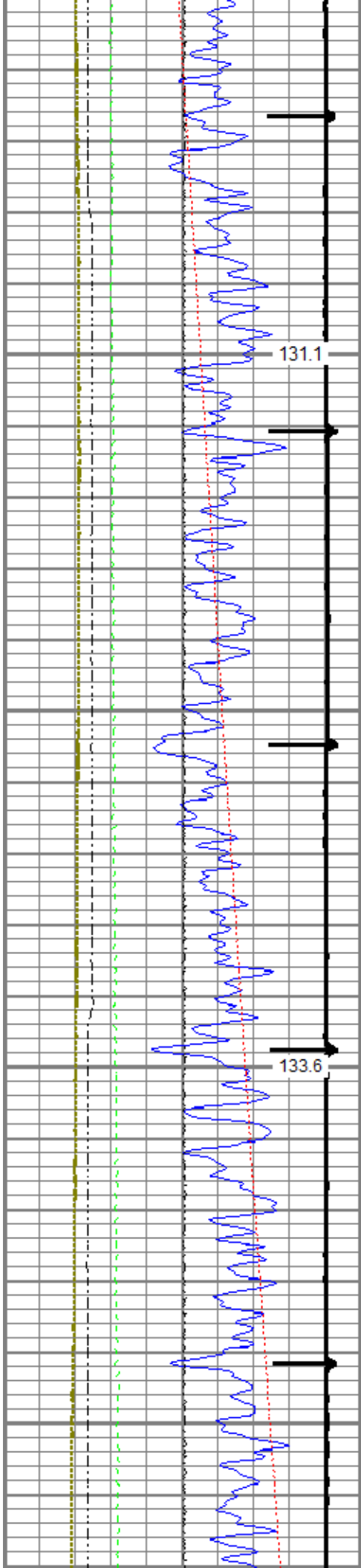




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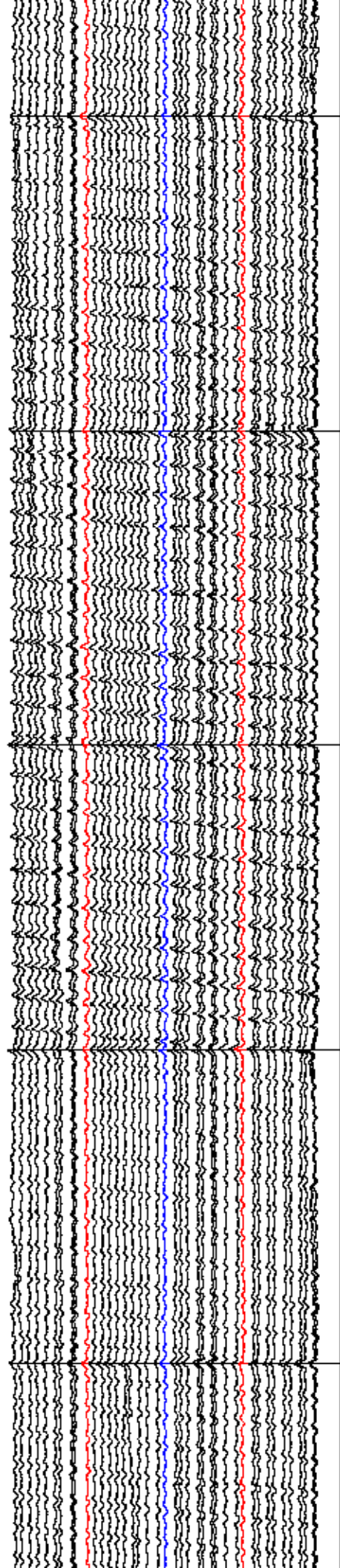
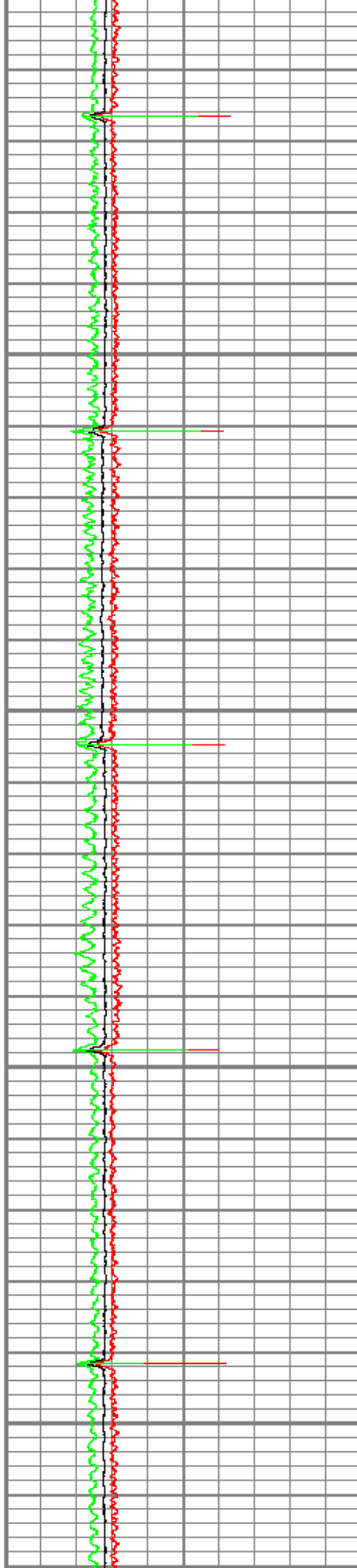
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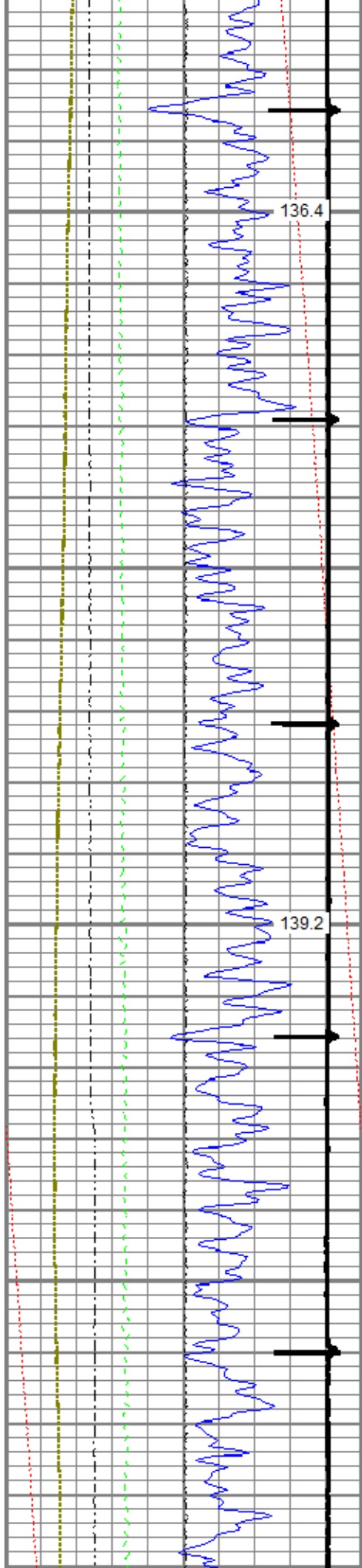




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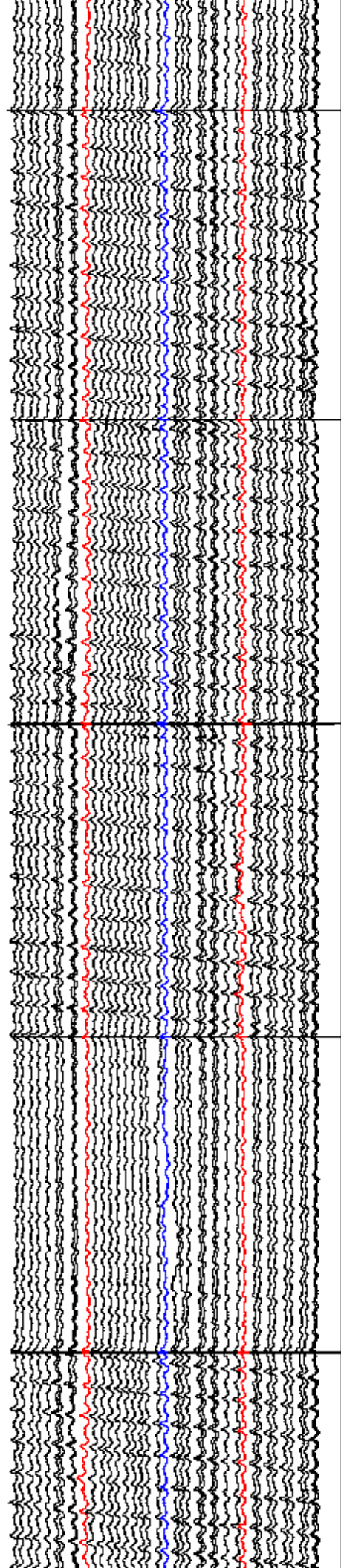
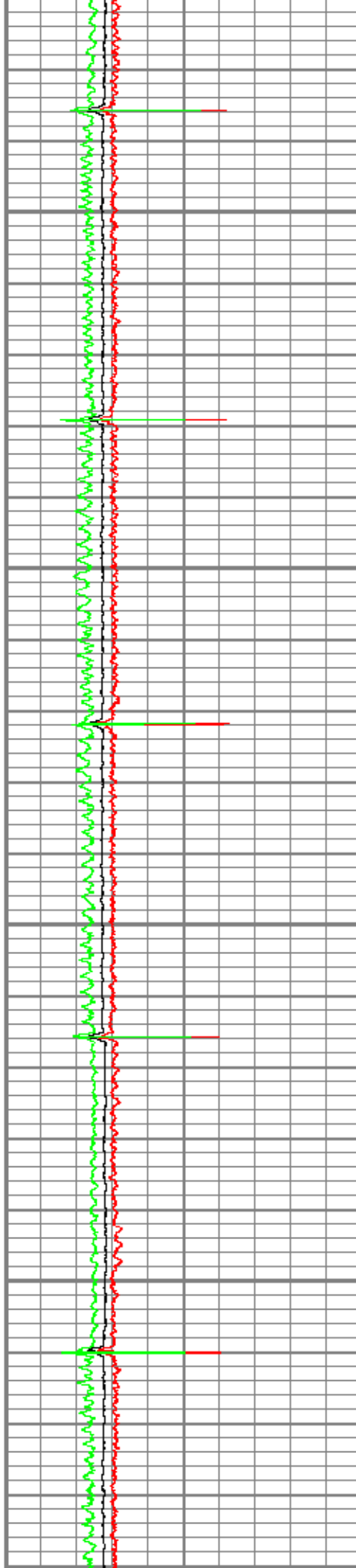
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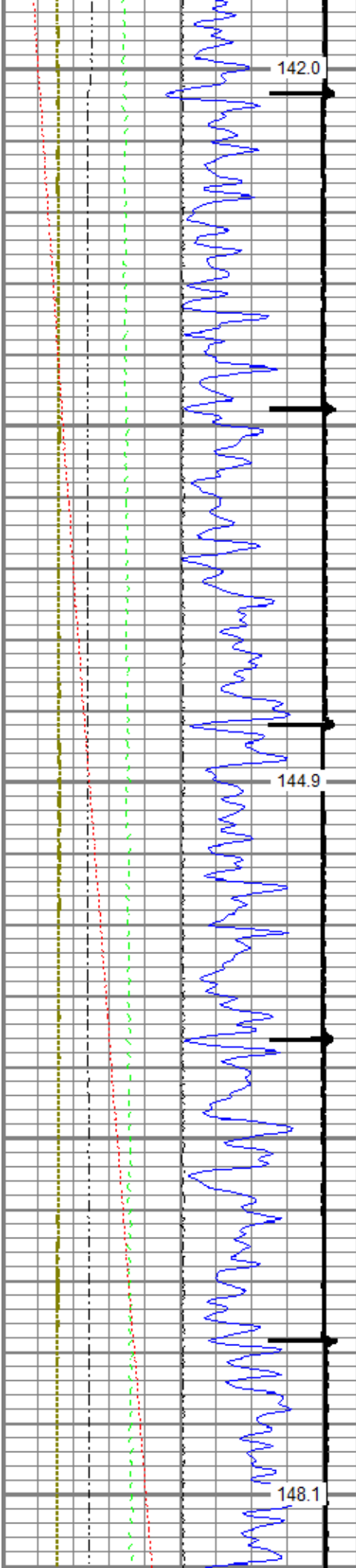




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3800

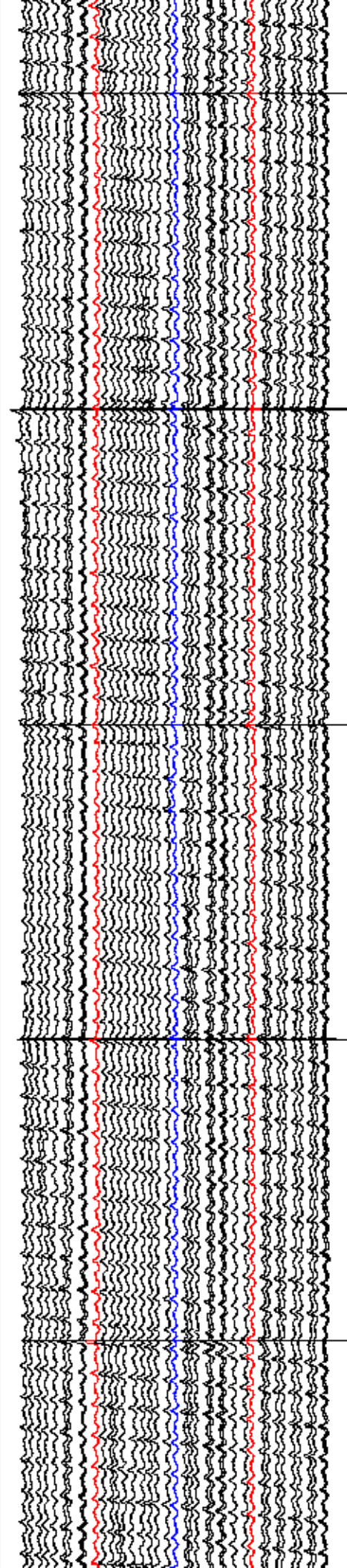
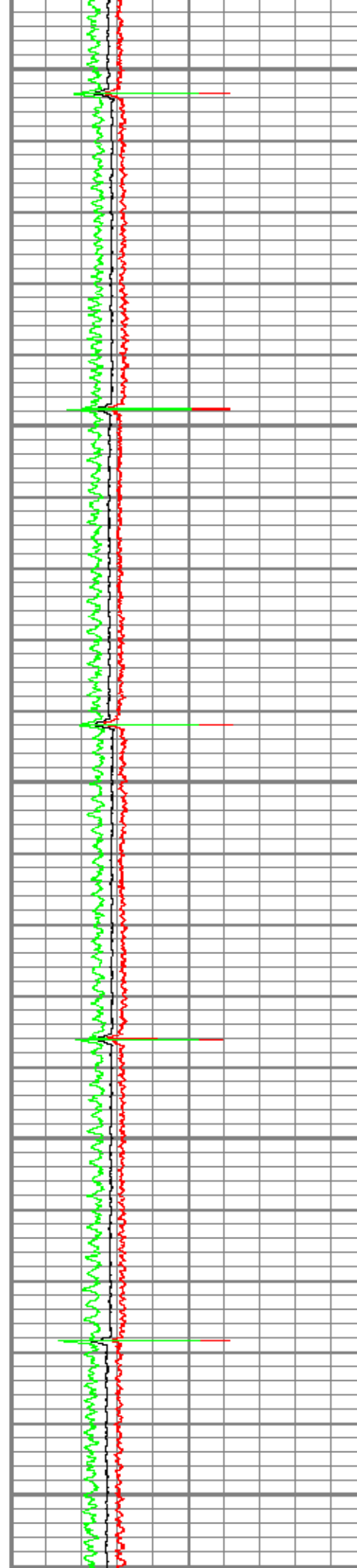


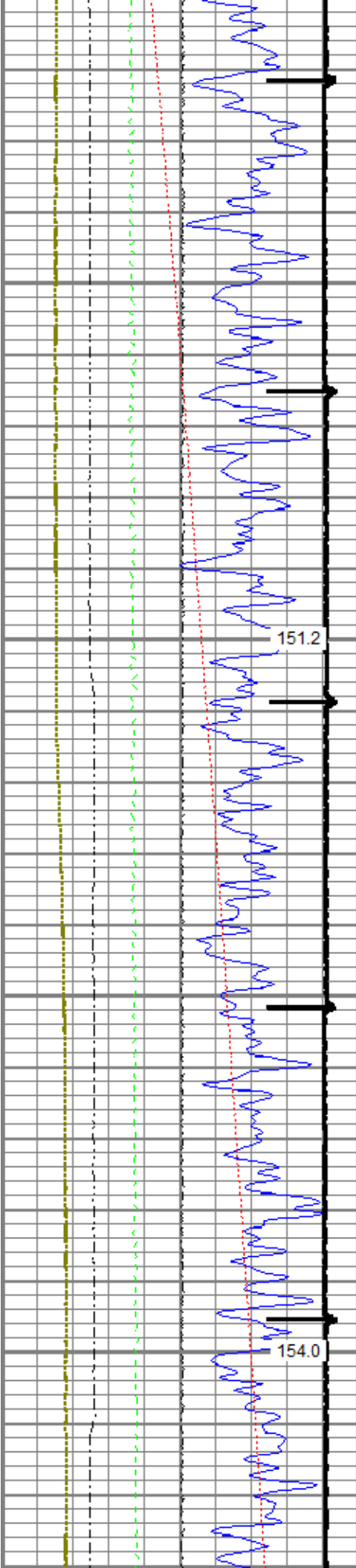


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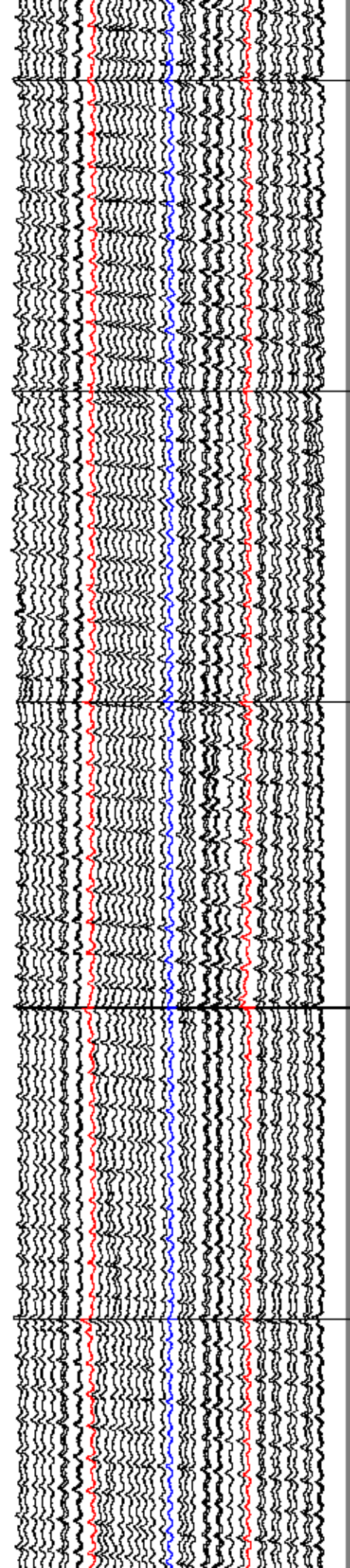
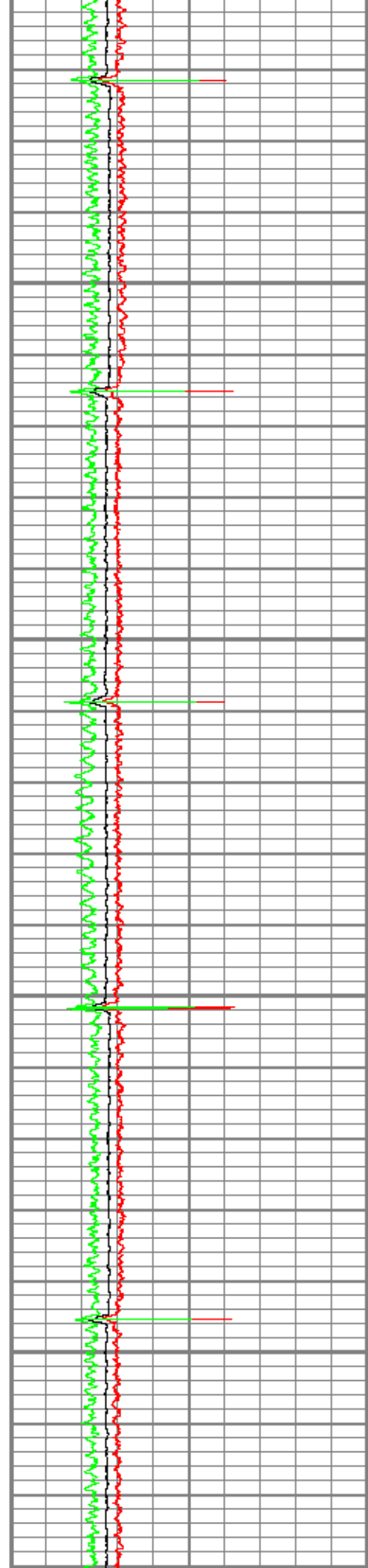
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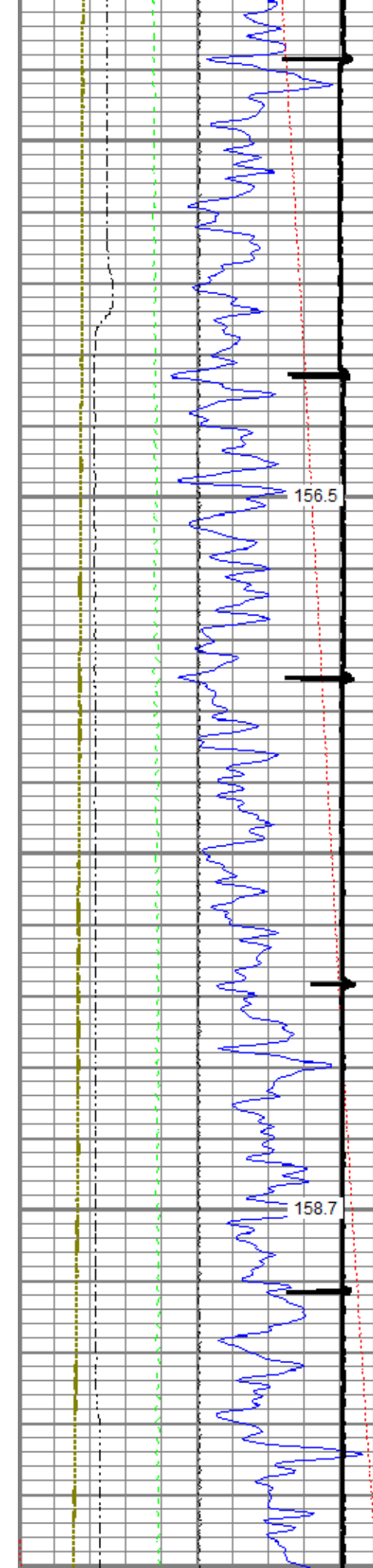




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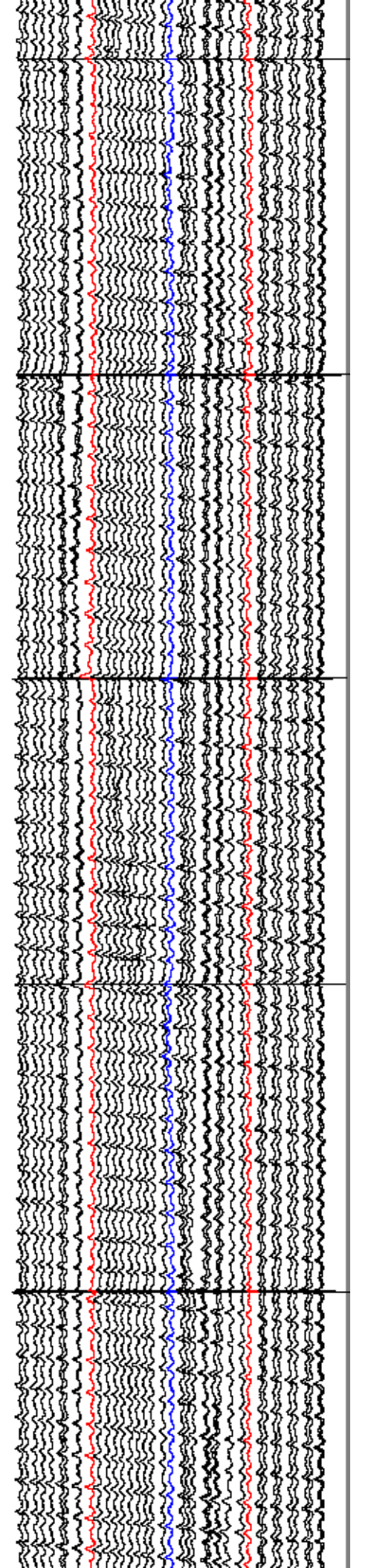
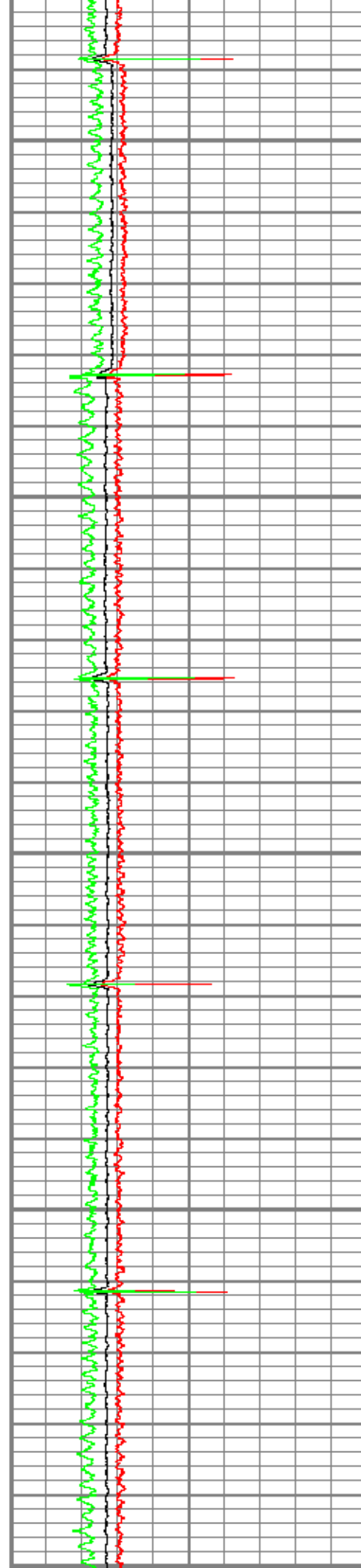
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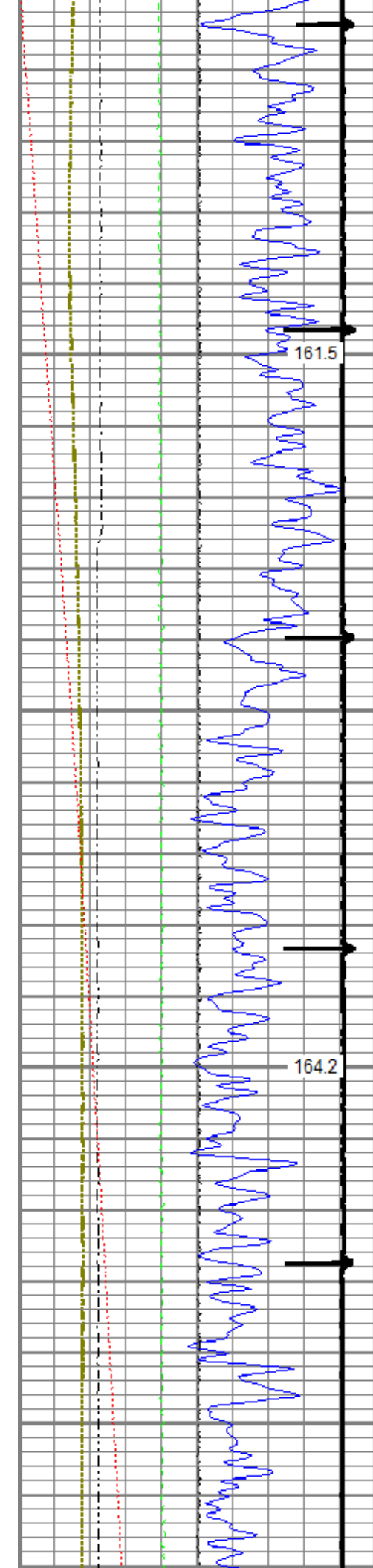




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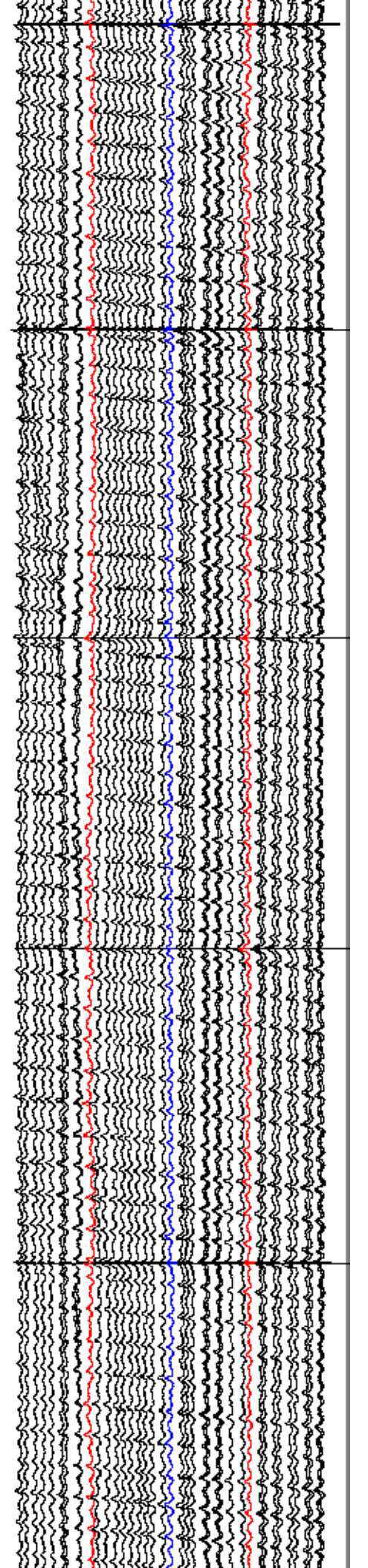
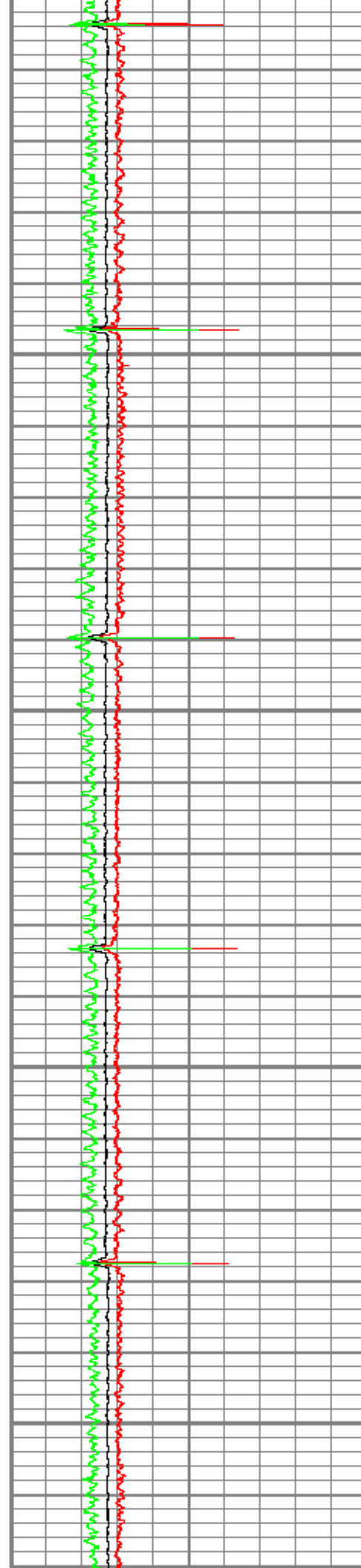
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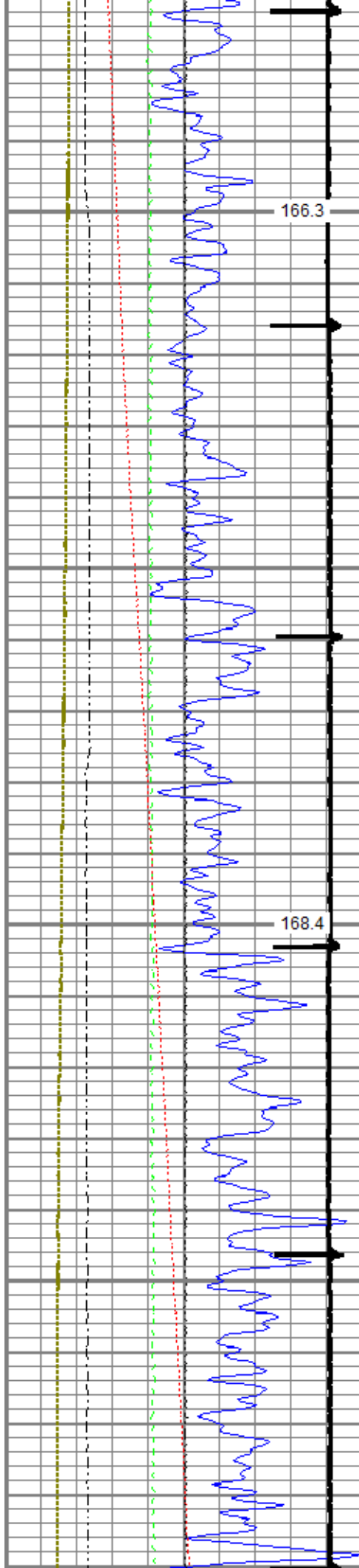




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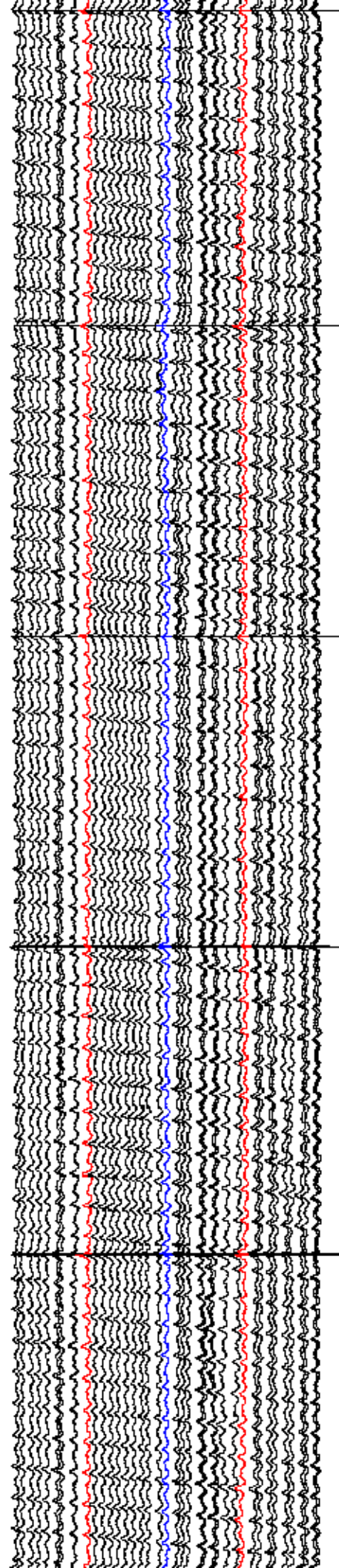
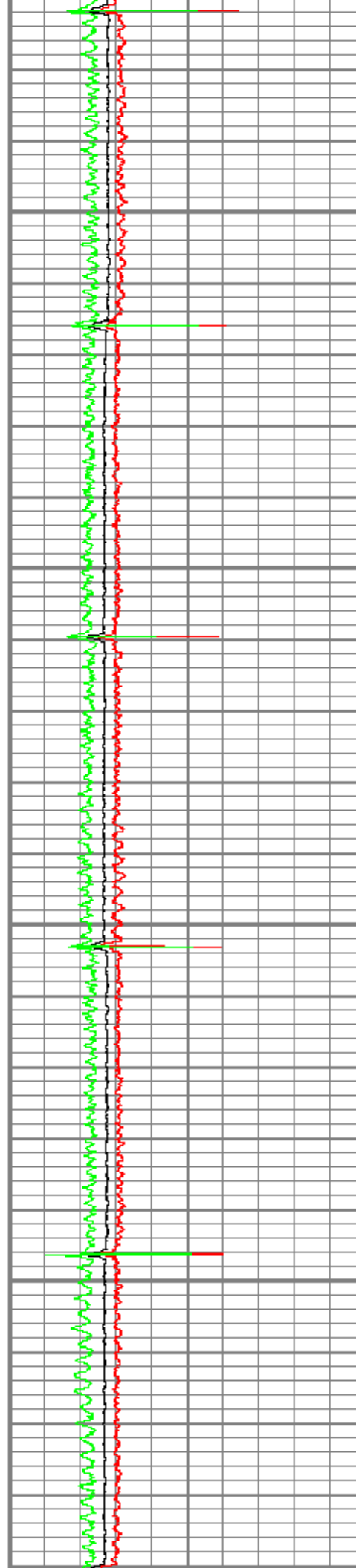
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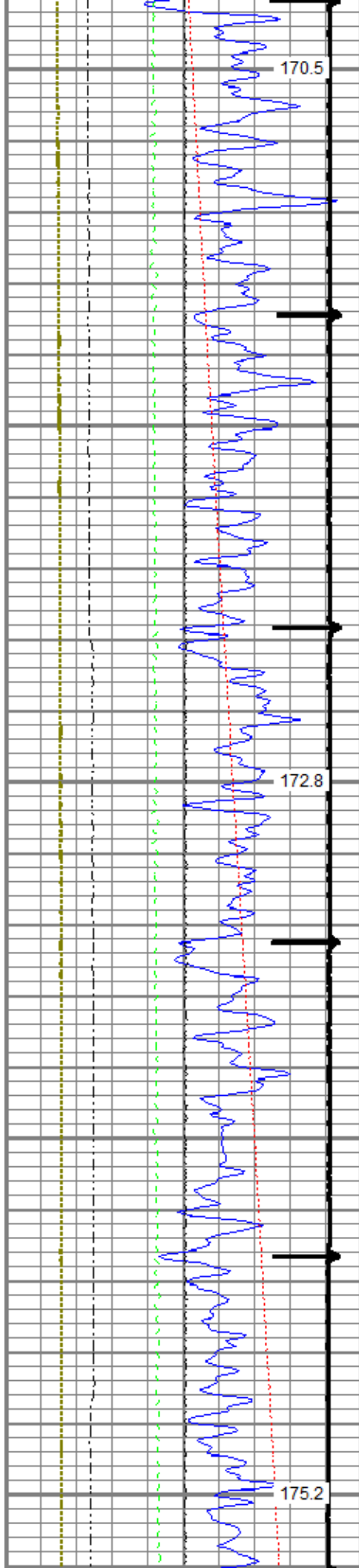




4800

4900





170.5

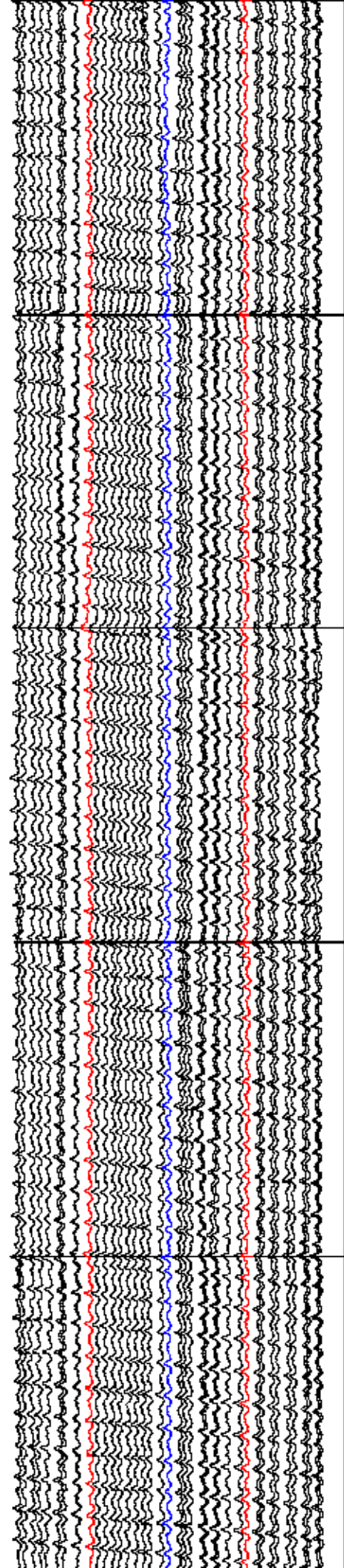
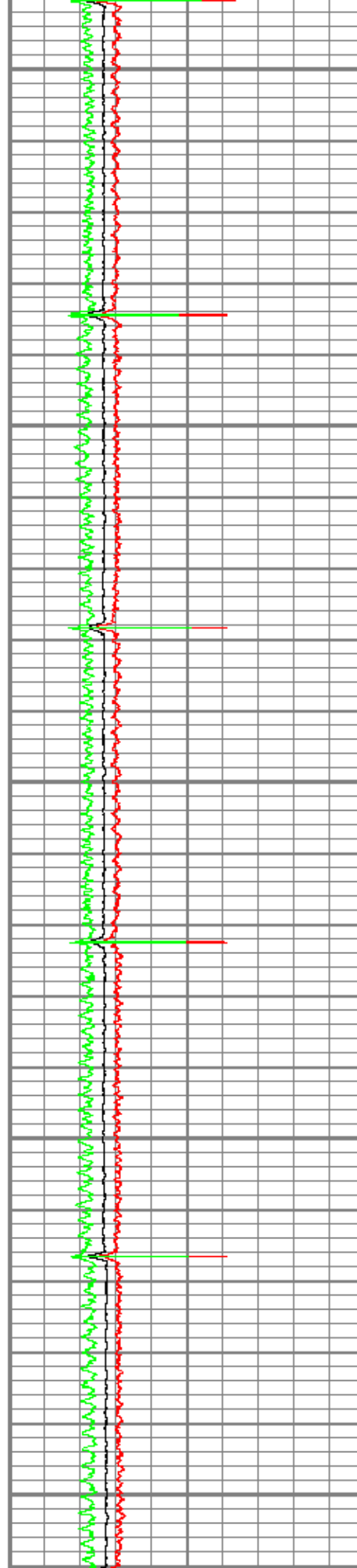
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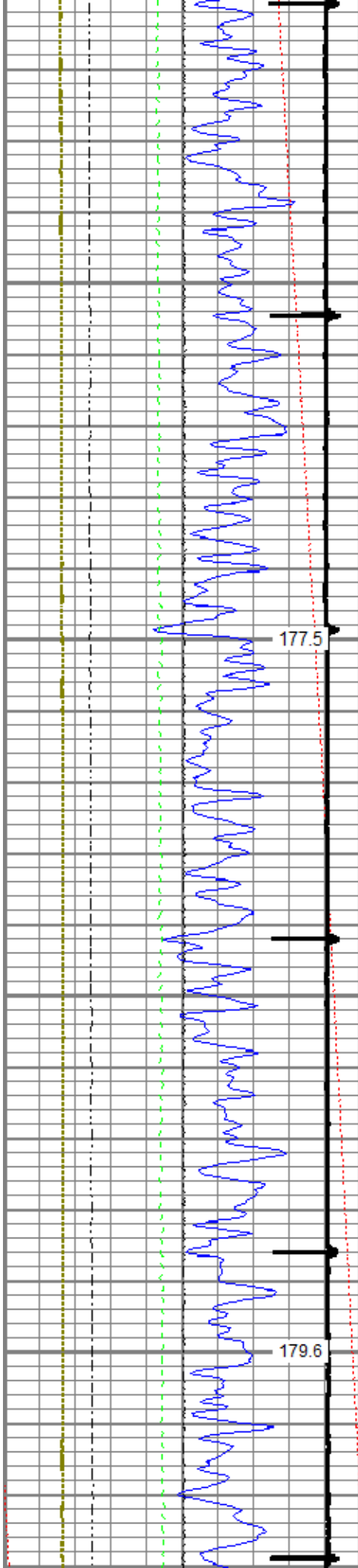
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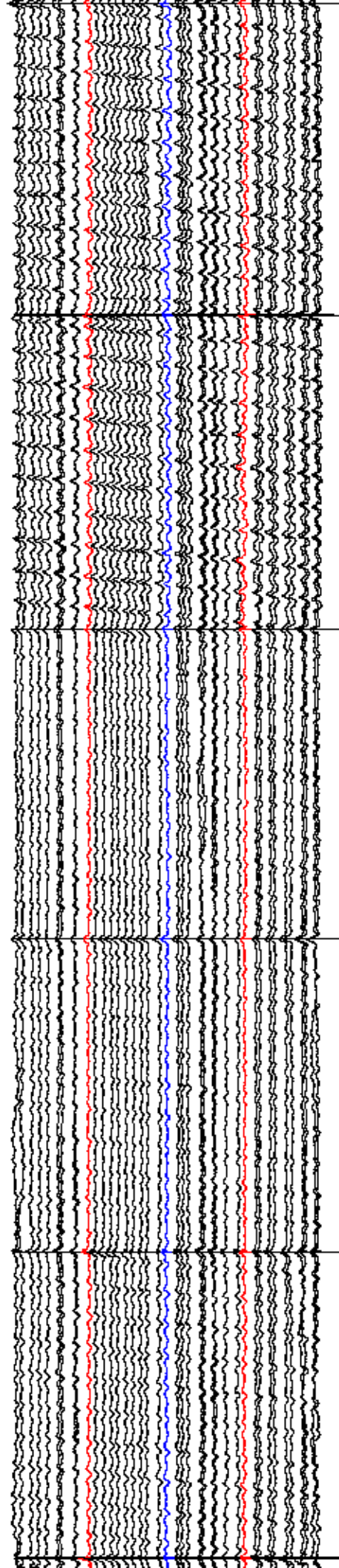
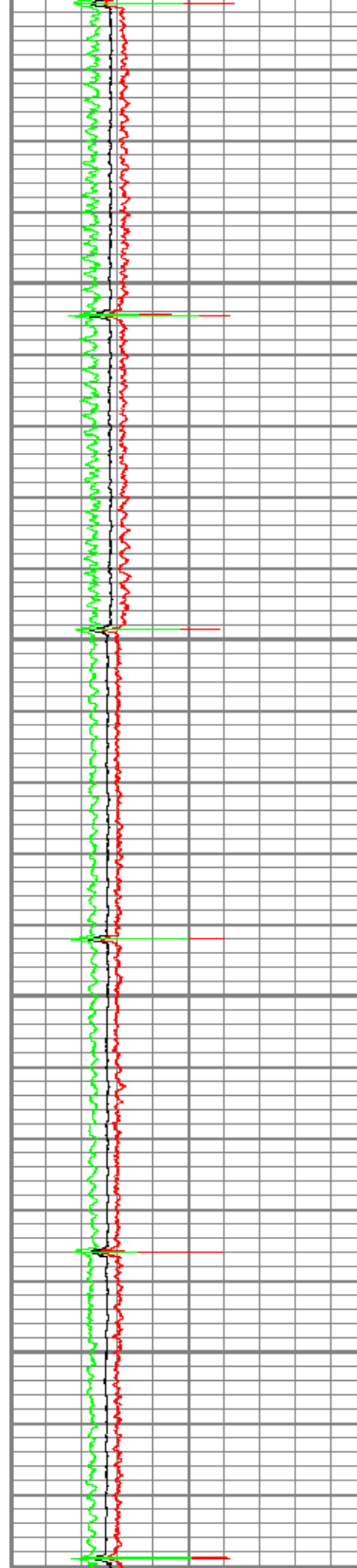
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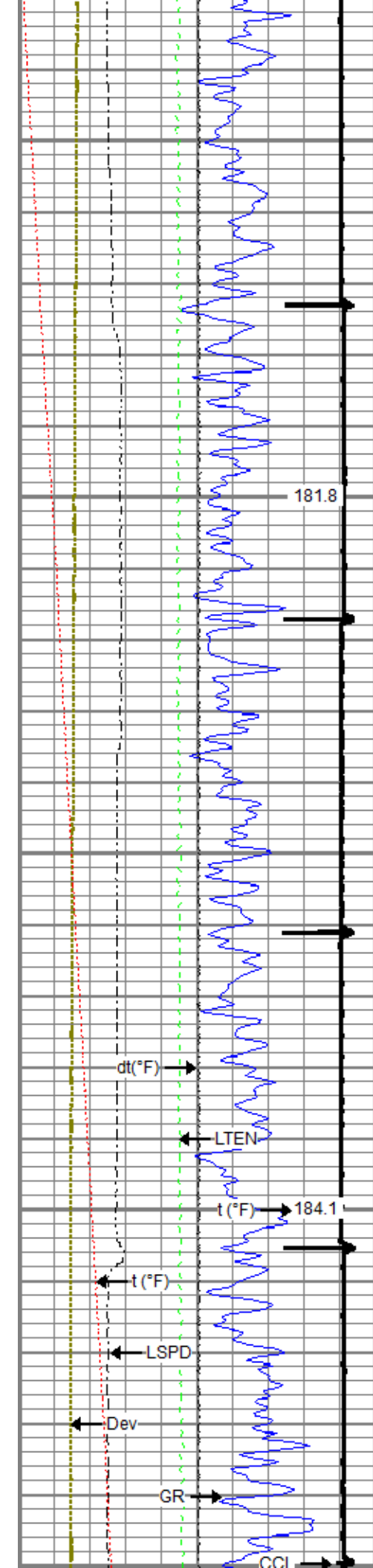




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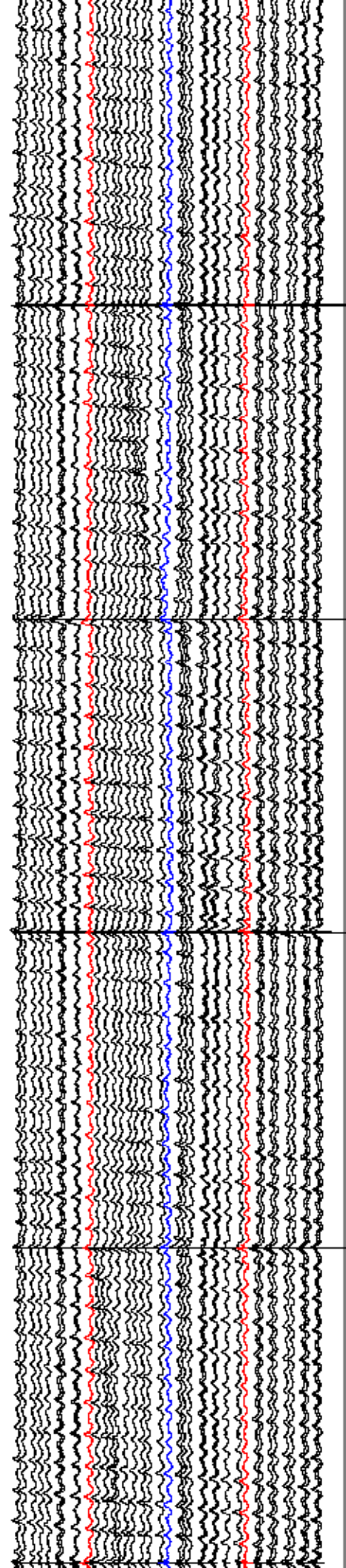
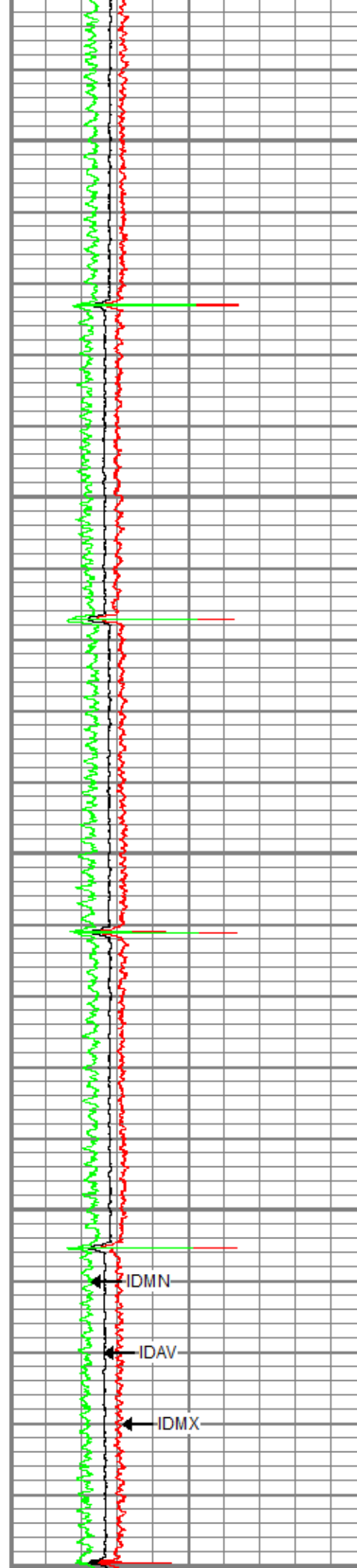
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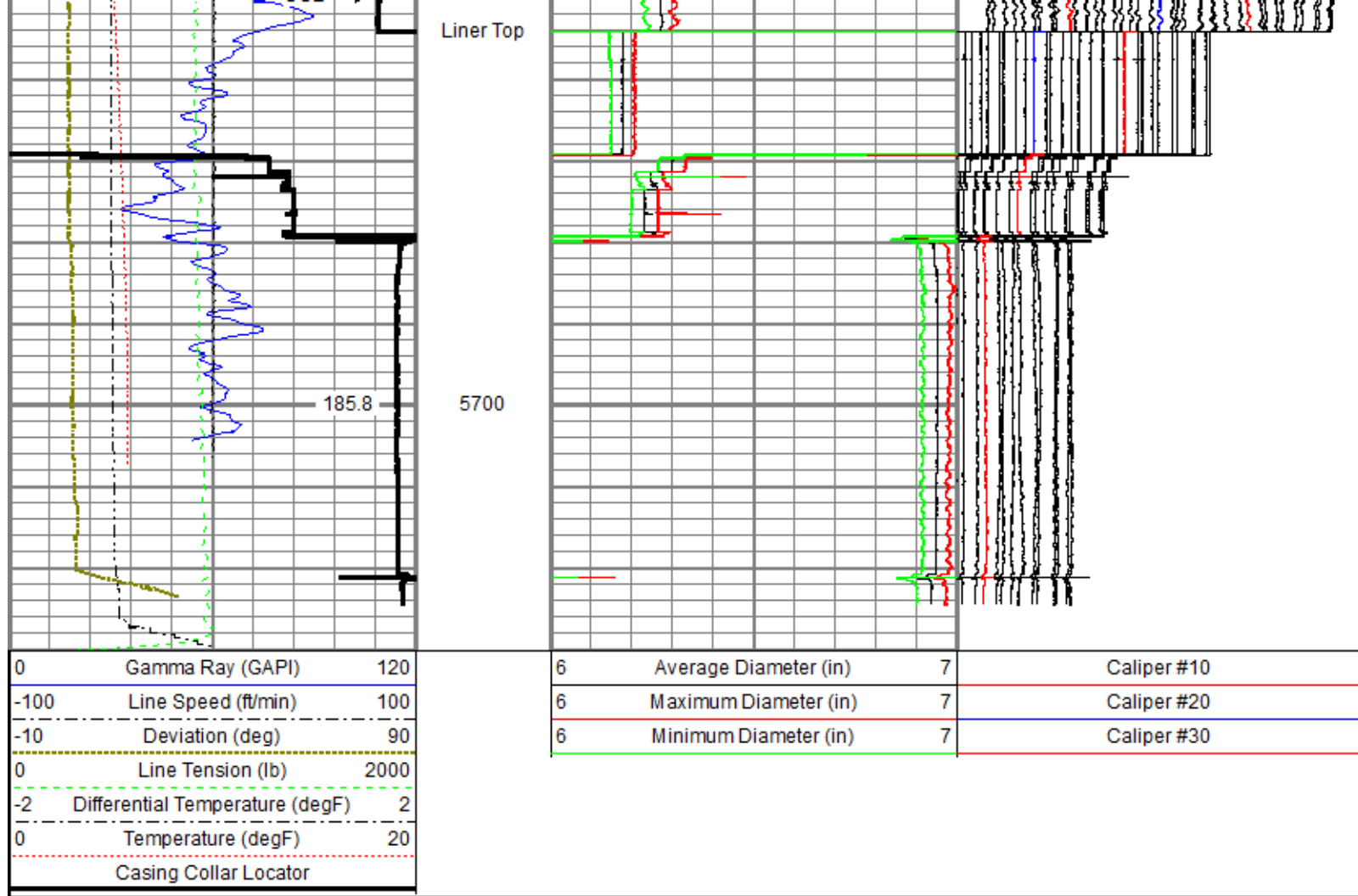




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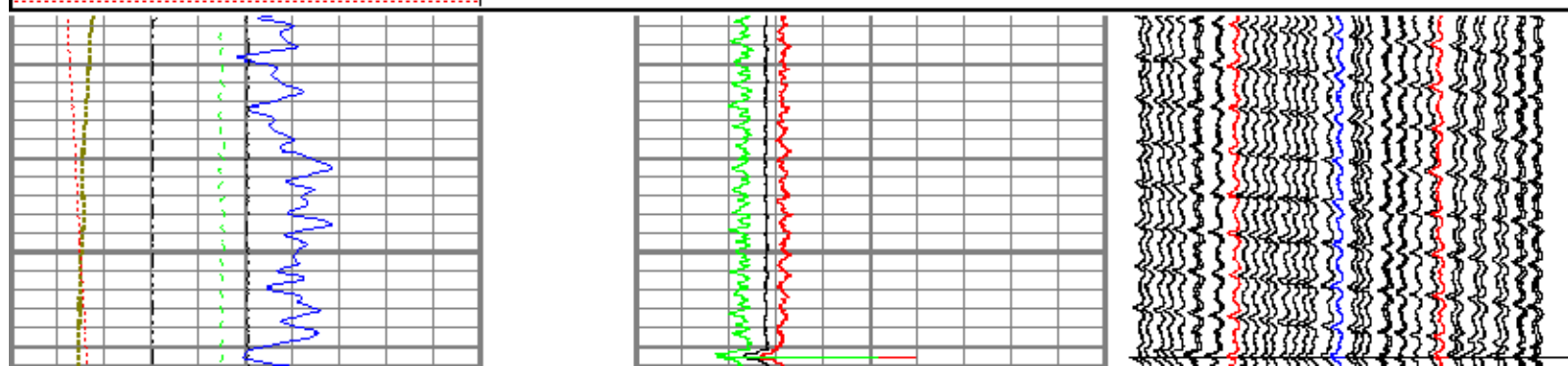
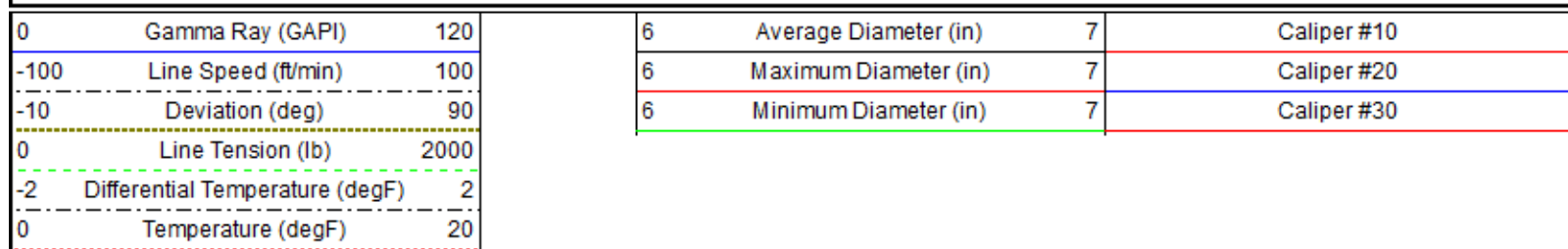


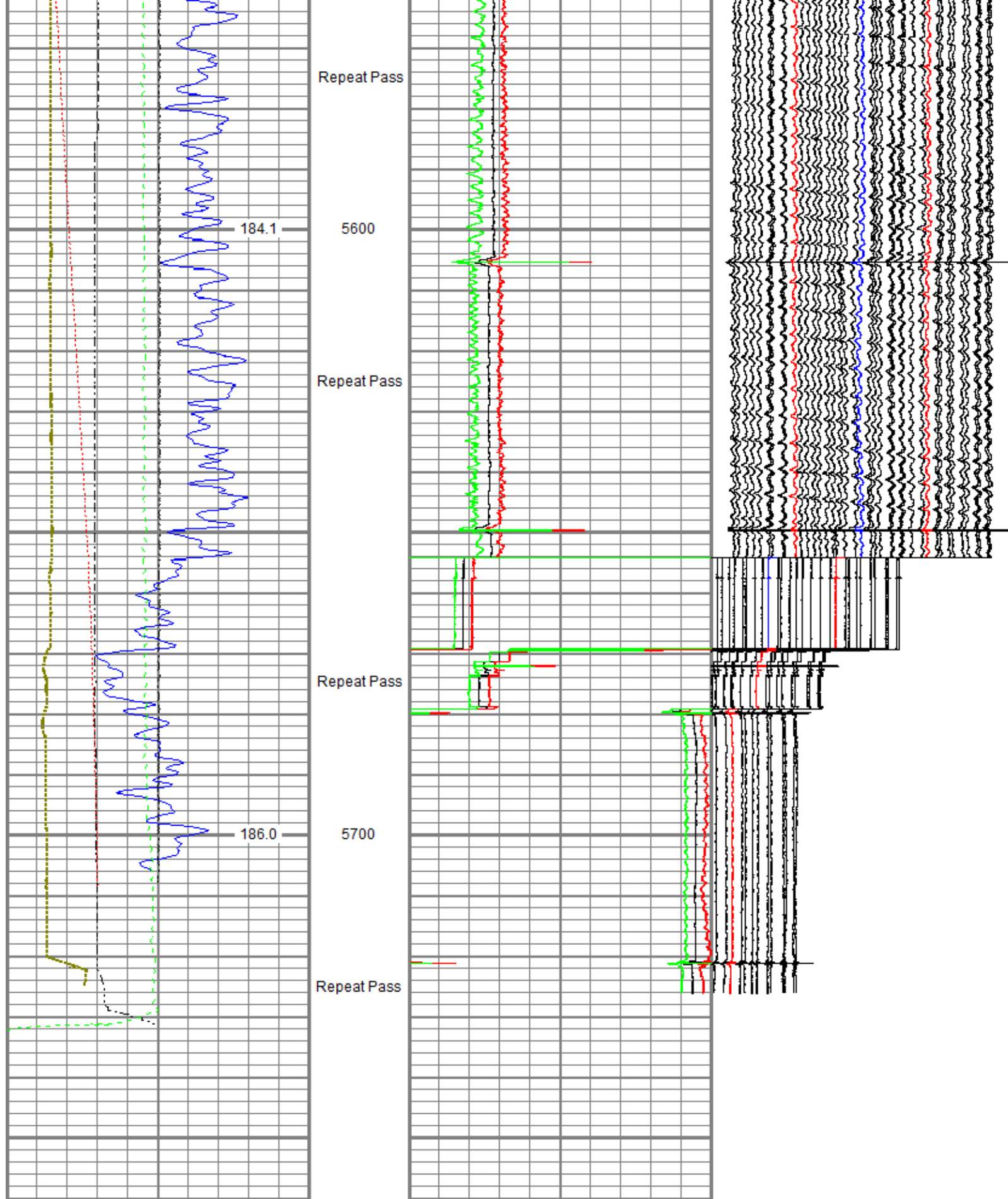


Repeat Pass


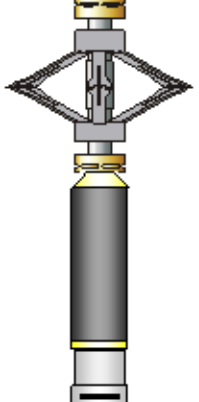
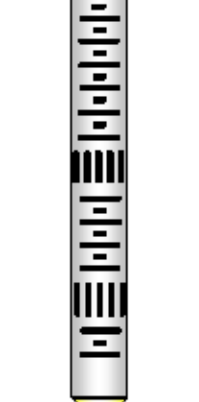
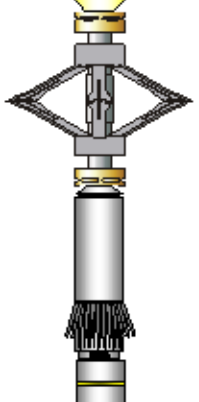
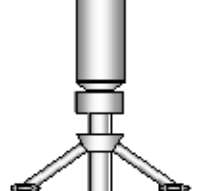
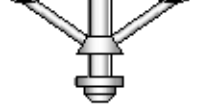
Recorded With 2800 PSI Surface Induced Pressure

Database File: anadarko_wagner 1n-e10hzl0512343475_anadarko_wagner 1n-e10hz_mit_12-08-17.db
 Dataset Pathname: pass2
 Presentation Format: ros_70mit40sx
 Dataset Creation: Fri Dec 08 12:50:55 2017
 Charted by: Depth in Feet scaled 1:240





0	Gamma Ray (GAPI)	120	6	Average Diameter (in)	7	Caliper #10
-100	Line Speed (ft/min)	100	6	Maximum Diameter (in)	7	Caliper #20
-10	Deviation (deg)	90	6	Minimum Diameter (in)	7	Caliper #30
0	Line Tension (lb)	2000				
-2	Differential Temperature (degF)	2				

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	23.58		Titan_Electric_Cable_Heads-Titan_1-11/16"	1.03	1.69	5.40
			Electric Cable Head with 1" Fishing Neck			
			UW_AGS-UW_AGS_001 (219135)	0.21	1.69	1.00
			Sondex Adapter - GO Box to Sondex Pin			
TEMP	22.18		UW_XTU-UW_XTU_002 (051219)	1.58	1.69	6.50
			Crossover Ultrawire Toolbus to Ultralink			
			UW_PGR-UW_PGR_020 (10013902)	1.92	1.69	9.50
			Production Gamma Ray			
			UW_PRT-PRT_016 (10024052)	1.04	1.69	5.20
			Platinum Resistance Thermometer			
			UW_PRC-DSS_RAC	2.55	2.75	32.00
			5 Arm 2-3/4" Roller Centralizer			
CBLROT	15.15		UW_RBT-UW_RBT_004 (1066)	9.48	3.13	140.00
CBLTEMP	15.15					
WVFS8	15.15					
WVFS7	15.15					
WVFS6	15.15					
WVFS5	15.15					
WVFS4	15.15					
WVFS3	15.15					
WVFS2	15.15					
WVFS1	15.15					
WVF3FT	15.15					
WVF5FT	14.15					
CBLTEMP	10.02					
MIT	5.27		UW_PRC-DSS_RAC	2.55	2.75	32.00
			5 Arm 2-3/4" Roller Centralizer			
			UW_MIT-UW_MIT40_027 (218949)	4.54	2.75	65.00
			40 Multifinger Imaging Tool			
TSTAMP	0.00		UW_PRC-PRC_057	2.71	2.75	32.00
			4 Arm 2-3/4" Production Roller Centralizer			
			UW_BUL-UW_BUL_006 (031422)	0.22	1.69	1.20
			Sondex Ultrawire Bullnose Terminator			

Total length: 27.83 ft
Total weight: 329.80 lb
O.D.: 3.13 in

Calibration Report

Database File C:\ProgramData\Warrior\Data\Anadarko_Wagner 1N-E10HZ\0512343475_Anadarko_Wagner 1N-E10HZ_MIT_12-08-17.db
Dataset Pathname calreport
Dataset Creation Fri Dec 08 15:14:23 2017

Multifinger Imaging Tool Calibration Report

Serial Number: 218949
Number of Fingers: 40
Tool Model: UW_MIT40_027

Inclinometer Calibration Report

Performed: Mon, Oct, 06 14:03:04 2008
Calibration Angle: 45

	Inc X	Inc Y
Vertical:	1996	1984
Finger 1 up:	1780	1738
Finger 31 up:	2235	1756
Finger 21 up:	2216	2228
Finger 11 up:	1736	2196
Sensitivity ratio:	1.0062	
X-axis angle:	131.534	
Deviation const.:	331.322	

Finger Calibration Report

Performed: Fri Dec 08 11:54:25 2017

Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1374	287.0	1661	295.0	1956	315.0	2271
Finger 02:	1449	281.0	1730	288.0	2018	304.0	2322
Finger 03:	1642	281.0	1923	285.0	2208	290.0	2498
Finger 04:	1639	288.0	1927	275.0	2202	291.0	2493
Finger 05:	1538	270.0	1808	270.0	2078	285.0	2363
Finger 06:	1525	260.0	1785	264.0	2049	272.0	2321
Finger 07:	1356	280.0	1636	287.0	1923	305.0	2228
Finger 08:	1538	262.0	1800	263.0	2063	276.0	2339
Finger 09:	1423	273.0	1696	285.0	1981	300.0	2281
Finger 10:	1484	269.0	1753	278.0	2031	285.0	2316
Finger 11:	1479	264.0	1743	272.0	2015	277.0	2292
Finger 12:	1316	281.0	1597	297.0	1894	309.0	2203
Finger 13:	1581	282.0	1863	291.0	2154	291.0	2445
Finger 14:	1421	281.0	1702	298.0	2000	304.0	2304
Finger 15:	1545	261.0	1806	275.0	2081	281.0	2362
Finger 16:	1402	279.0	1681	298.0	1979	307.0	2286
Finger 17:	1624	267.0	1891	284.0	2175	283.0	2458
Finger 18:	1390	283.0	1673	311.0	1984	318.0	2302
Finger 19:	1646	255.0	1901	262.0	2163	260.0	2423
Finger 20:	1517	259.0	1776	280.0	2056	286.0	2342
Finger 21:	1604	244.0	1848	260.0	2108	265.0	2373
Finger 22:	1533	269.0	1802	287.0	2089	294.0	2383
Finger 23:	1356	266.0	1622	291.0	1913	303.0	2216
Finger 24:	1677	257.0	1934	272.0	2206	277.0	2483
Finger 25:	1373	281.0	1654	312.0	1966	319.0	2285
Finger 26:	1539	277.0	1816	300.0	2116	307.0	2423
Finger 27:	1456	252.0	1708	276.0	1984	283.0	2267
Finger 28:	1647	267.0	1914	288.0	2202	293.0	2495
Finger 29:	1471	266.0	1737	290.0	2027	302.0	2329
Finger 30:	1413	267.0	1680	293.0	1973	309.0	2282
Finger 31:	1522	261.0	1783	279.0	2062	291.0	2353
Finger 32:	1339	258.0	1597	282.0	1879	298.0	2177
Finger 33:	1623	296.0	1919	312.0	2231	321.0	2552
Finger 34:	1534	270.0	1804	278.0	2082	292.0	2374
Finger 35:	1436	268.0	1704	282.0	1986	299.0	2285
Finger 36:	1584	281.0	1865	289.0	2154	301.0	2455
Finger 37:	1593	277.0	1870	282.0	2152	298.0	2450
Finger 38:	1333	273.0	1577	285.0	1835	294.0	2255
Finger 39:	1522	261.0	1783	279.0	2062	291.0	2353

Finger 38:	1488	279.0	1767	285.0	2052	301.0	2353
Finger 39:	1452	283.0	1735	296.0	2031	310.0	2341
Finger 40:	1584	292.0	1876	296.0	2172	312.0	2484

Post Survey Calibration Check								
Performed: Fri Dec 08 15:11:51 2017								
Ring size: (in)	4	Nom. wear	5	Nom. wear	6	Nom. wear	7	Nom. wear
Finger 01:	4.002	0.001	5.005	0.002	6.003	0.002	6.994	-0.003
Finger 02:	3.993	-0.003	4.997	-0.002	5.996	-0.002	7.001	0.001
Finger 03:	3.985	-0.008	4.999	-0.001	5.983	-0.008	6.979	-0.011
Finger 04:	3.980	-0.010	4.962	-0.019	5.973	-0.014	6.946	-0.027
Finger 05:	3.994	-0.003	4.998	-0.001	5.998	-0.001	6.988	-0.006
Finger 06:	3.993	-0.004	5.001	0.000	5.992	-0.004	6.998	-0.001
Finger 07:	3.997	-0.001	4.997	-0.002	5.996	-0.002	6.989	-0.006
Finger 08:	3.994	-0.003	4.992	-0.004	5.999	-0.001	6.999	-0.001
Finger 09:	3.994	-0.003	4.996	-0.002	5.990	-0.005	6.981	-0.010
Finger 10:	3.998	-0.001	4.999	-0.000	5.992	-0.004	6.986	-0.007
Finger 11:	3.998	-0.001	4.998	-0.001	6.001	0.001	7.011	0.005
Finger 12:	3.995	-0.002	4.995	-0.002	5.998	-0.001	6.996	-0.002
Finger 13:	3.996	-0.002	4.987	-0.006	5.981	-0.010	6.978	-0.011
Finger 14:	3.996	-0.002	4.997	-0.002	5.994	-0.003	6.995	-0.002
Finger 15:	3.993	-0.004	4.993	-0.003	5.995	-0.002	6.989	-0.005
Finger 16:	3.997	-0.001	5.003	0.002	5.991	-0.004	6.980	-0.010
Finger 17:	3.993	-0.004	5.003	0.002	5.991	-0.005	6.983	-0.008
Finger 18:	3.989	-0.006	4.995	-0.002	5.994	-0.003	6.969	-0.015
Finger 19:	3.997	-0.001	4.994	-0.003	6.005	0.002	6.983	-0.009
Finger 20:	3.992	-0.004	4.992	-0.004	5.997	-0.001	6.987	-0.007
Finger 21:	3.989	-0.006	4.996	-0.002	6.005	0.002	7.007	0.004
Finger 22:	3.997	-0.001	4.989	-0.005	5.996	-0.002	6.995	-0.003
Finger 23:	3.995	-0.003	4.994	-0.003	6.001	0.000	6.995	-0.003
Finger 24:	3.993	-0.003	4.998	-0.001	5.999	-0.001	7.013	0.007
Finger 25:	3.993	-0.003	4.994	-0.003	5.992	-0.004	7.000	-0.000
Finger 26:	3.995	-0.003	4.997	-0.002	5.996	-0.002	7.000	0.000
Finger 27:	3.993	-0.004	4.996	-0.002	5.989	-0.005	6.990	-0.005
Finger 28:	3.992	-0.004	5.000	0.000	5.985	-0.008	6.978	-0.011
Finger 29:	3.992	-0.004	5.000	0.000	5.993	-0.003	6.986	-0.007
Finger 30:	3.995	-0.002	4.987	-0.007	5.975	-0.013	6.955	-0.023
Finger 31:	3.991	-0.004	4.991	-0.005	5.988	-0.006	6.983	-0.008
Finger 32:	3.991	-0.005	4.991	-0.004	5.990	-0.005	6.984	-0.008
Finger 33:	3.997	-0.002	4.995	-0.003	5.994	-0.003	6.985	-0.007
Finger 34:	3.998	-0.001	4.994	-0.003	6.001	0.000	6.982	-0.009
Finger 35:	3.996	-0.002	4.999	-0.001	6.000	-0.000	6.993	-0.004
Finger 36:	3.996	-0.002	4.994	-0.003	5.996	-0.002	6.994	-0.003
Finger 37:	4.002	0.001	5.004	0.002	6.007	0.004	6.999	-0.001
Finger 38:	3.994	-0.003	4.996	-0.002	6.002	0.001	7.004	0.002
Finger 39:	3.991	-0.005	4.996	-0.002	5.997	-0.002	7.005	0.003
Finger 40:	3.991	-0.004	5.000	0.000	6.000	-0.000	6.998	-0.001
Average:	3.994	-0.003	4.995	-0.002	5.994	-0.003	6.989	-0.005

Segmented Cement Bond Log Calibration Report			
Serial Number:		1066	
Tool Model:		UW_RBT_004	
Calibration Casing Diameter:		7.000	in
Calibration Depth:		21.037	ft

Master Calibration, performed Fri Dec 08 08:13:16 2017:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.002	0.580	0.800	62.165	106.226	0.546
5FT	-0.002	0.568	0.800	62.165	107.645	1.063
S1	0.002	0.567	0.000	100.000	177.194	-0.430
S2	0.001	0.588	0.000	100.000	170.284	-0.208
S3	0.002	0.582	0.000	100.000	172.246	-0.296
S4	0.001	0.592	0.000	100.000	169.288	-0.198
S5	0.002	0.582	0.000	100.000	171.000	-0.201

S5	0.002	0.586	0.000	100.000	171.292	-0.364
S6	0.001	0.586	0.000	100.000	170.941	-0.248
S7	0.002	0.592	0.000	100.000	169.610	-0.408
S8	0.003	0.573	0.000	100.000	175.223	-0.473

Temperature Calibration Report

Serial Number: 10024052
 Tool Model: PRT_016
 Performed: Sun Oct 11 12:16:39 2015

Point #	Reading		Reference	
1	12242.00	cps	68.00	degF
2	18329.00	cps	104.00	degF
3	29563.00	cps	176.00	degF
4	41222.00	cps	248.00	degF
5	52988.00	cps	320.00	degF
6	58824.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 10013902
 Tool Model: UW_PGR_020
 Performed: (Not Performed)

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps



Company Kerr-McGee Oil & Gas Onshore, L.P.
Well Wagner 1N-E10HZ
Field Wattenberg
County Weld
State Colorado