

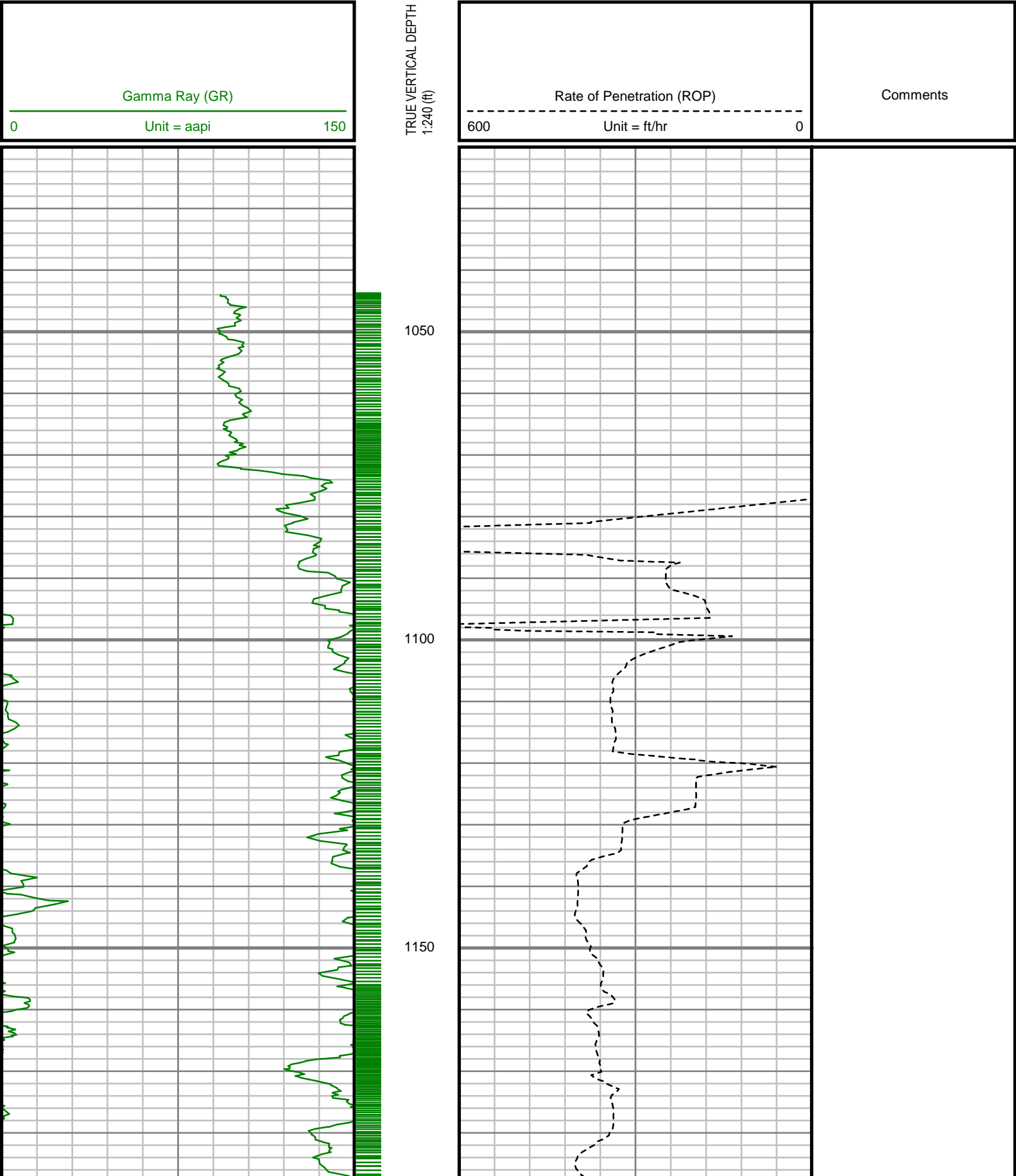
5" = 100' FEET TVD

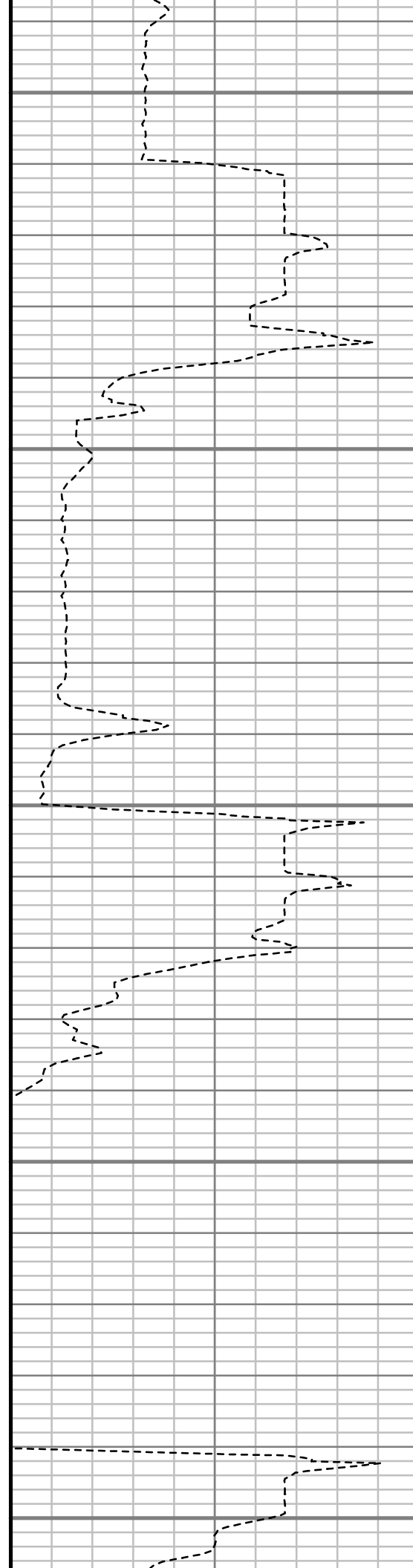
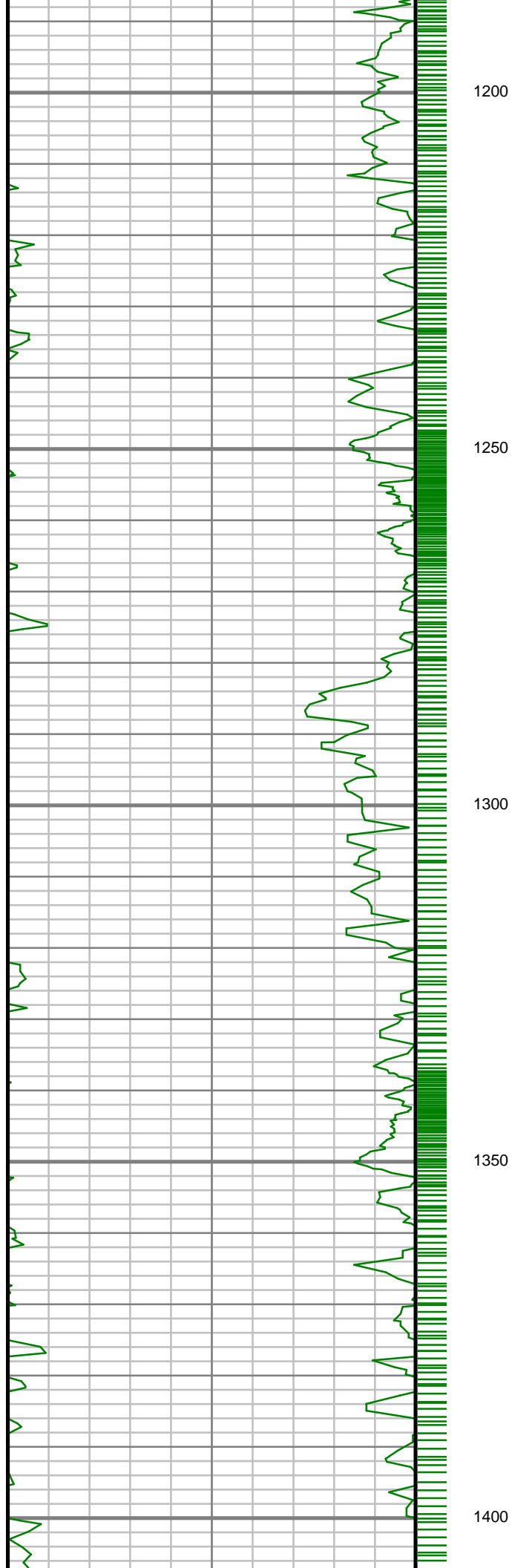
COMPANY : ENCANA OIL & GAS (U.S.A.) INC									
WELL : DALE 4B-20H-0264									
FIELD : WATTENBERG									
COUNTY : WELD									
STATE : COLORADO									
COUNTRY : U.S.A.									
UWI : 05-123-39724									
WELL LOCATION									
LAT:40°7'3.511"N LONG:104°34'19.178"W									
N:1287061.60 ft E:3259537.51 ft									
SEC:20 TWP:2N RANGE:64W									
DIRECTIONAL									
ROP									
DEPTH REF. : RKB									
REF. HEIGHT : 25.000 ft									
RKB to Ground Level									
GROUND LEVEL : 4959.000 ft									
G.L. to MEAN SEA LEVEL									
BOREHOLE RECORD					DEVIATION RECORD				
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft				
12.25	0	1092	0 - 12	0	4128				
8.75	1092	7488	12 - 0	4128	6602				
6.125	7488	11780	0 - 82	6602	7428				
			82 - 92	7428	11780				
CASING RECORD									
CASING SIZE in	FROM ft	TO ft							
16	0	140							
9.625	0	1087							
7	0	7478							
						DRILLING CO.: H&P			
						RIG: 278			
						LWD UNIT NO.: WMD-00046-DISTRICT: CASPER, CASPER			
						SPUD DATE: 08/24/2014			
						LWD START DATE: 11/13/2014			
						LWD END DATE: 11/20/2014			
						DEPTH: 5000 ft			
						DEPTH: 11780 ft			
						TOTAL DEPTH: 11780 ft			

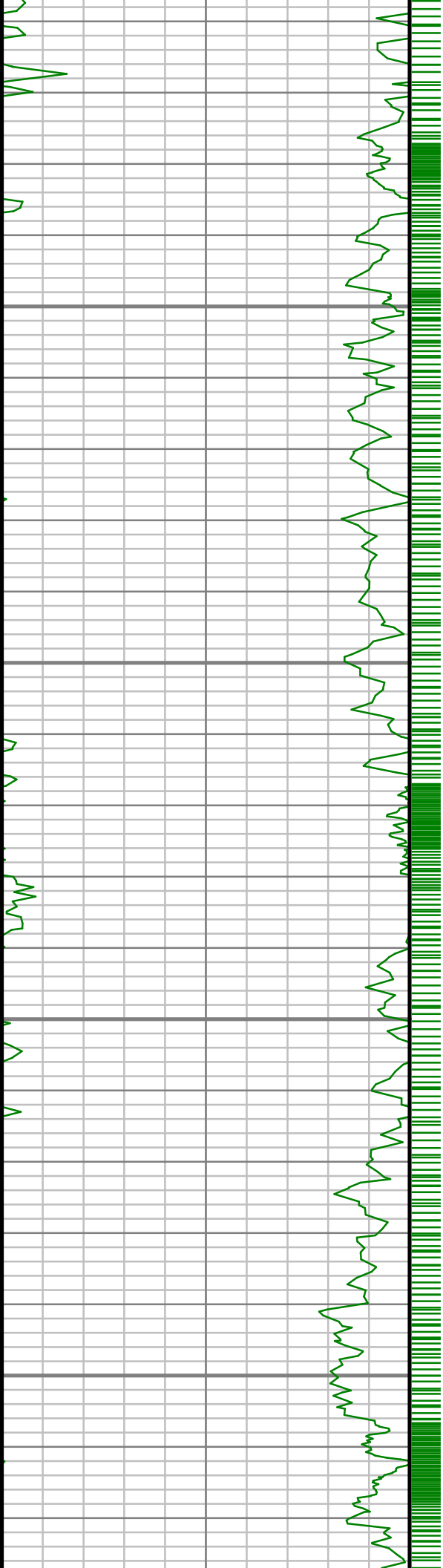


All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 as set out in our current price schedule.

ENCANA OIL AND GAS (U.S.A.) INC  
DALE 4B-20H-O264  
WATTENBERG  
WELD COUNTY, COLORADO  
05-123-39724





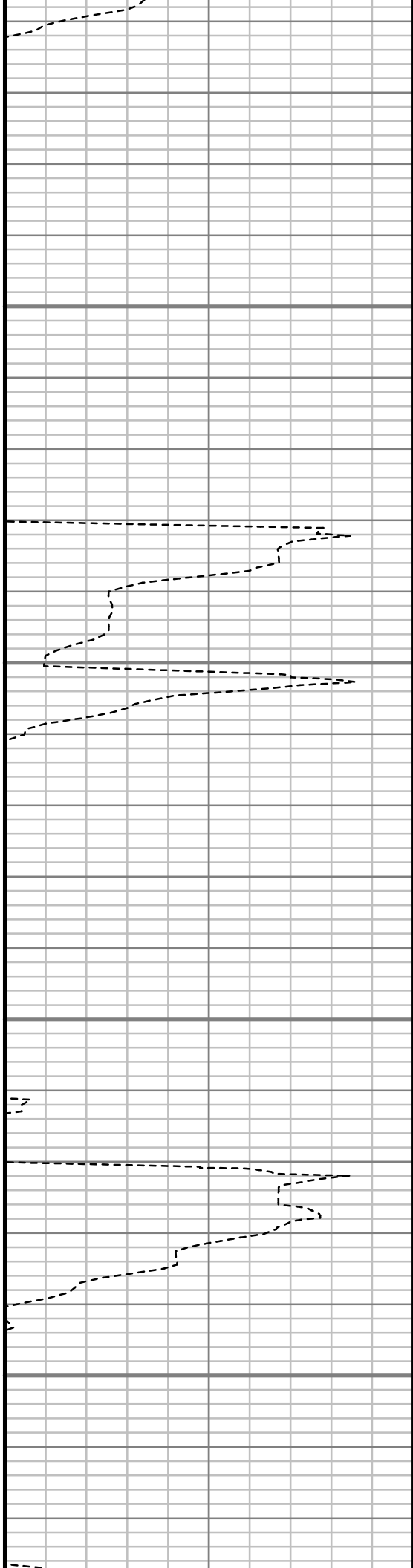


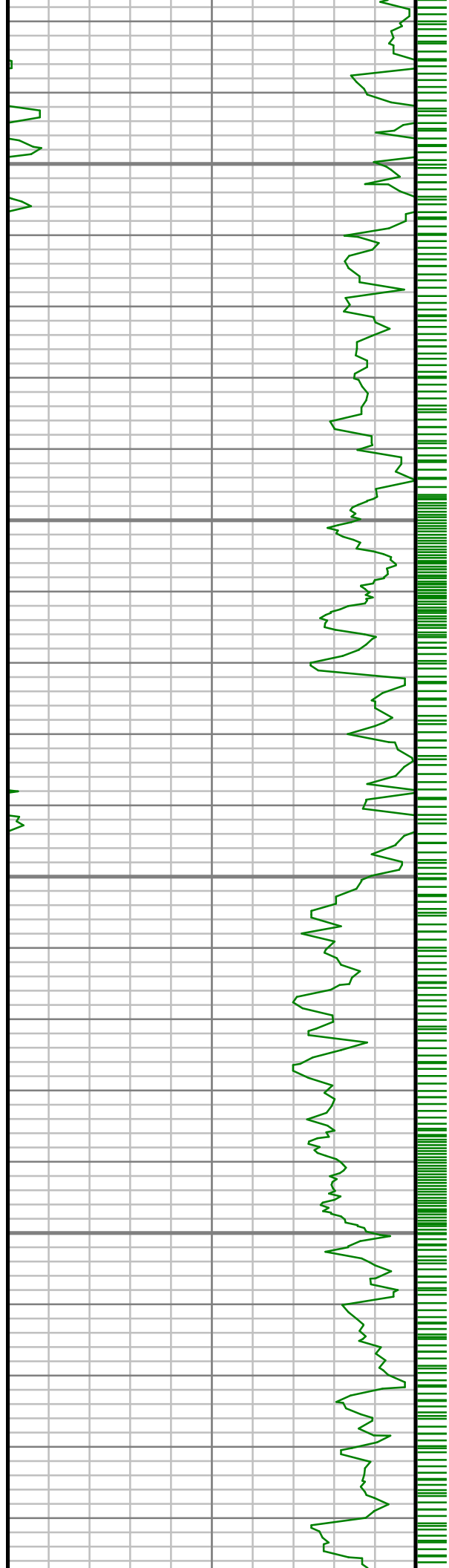
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1500

1550

1600



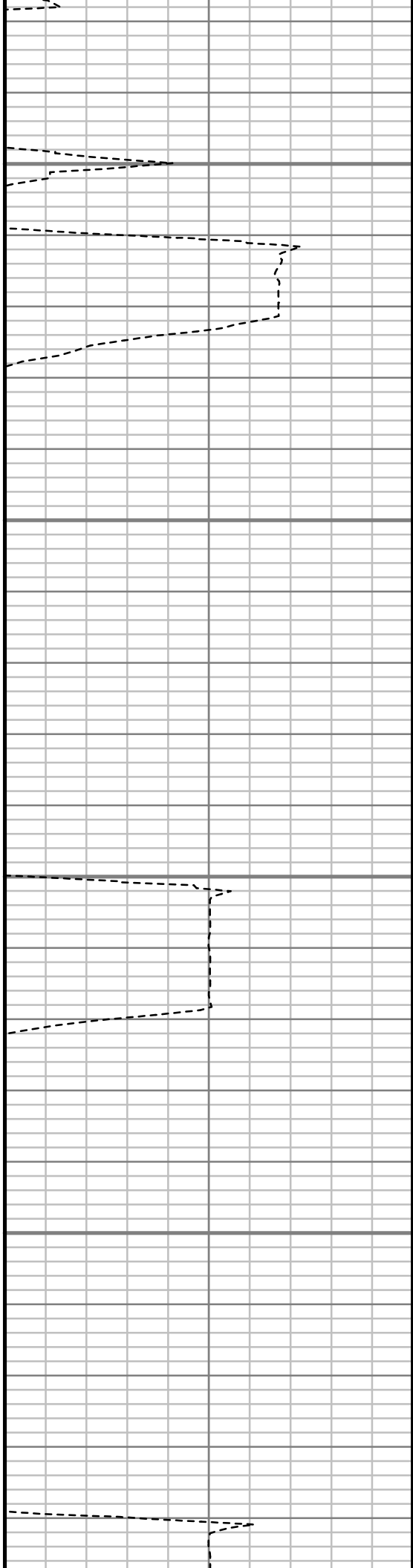


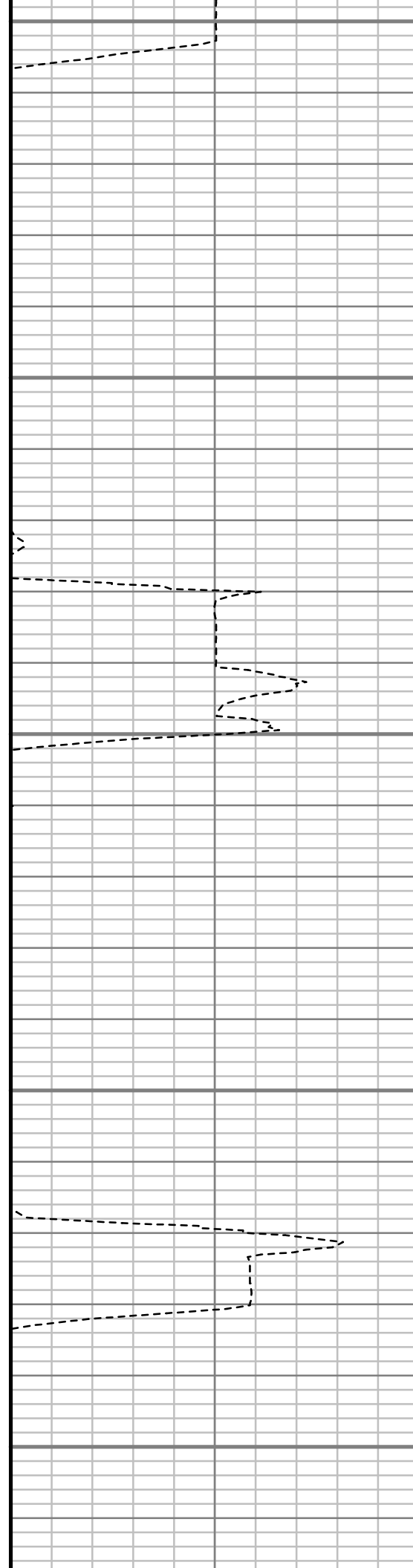
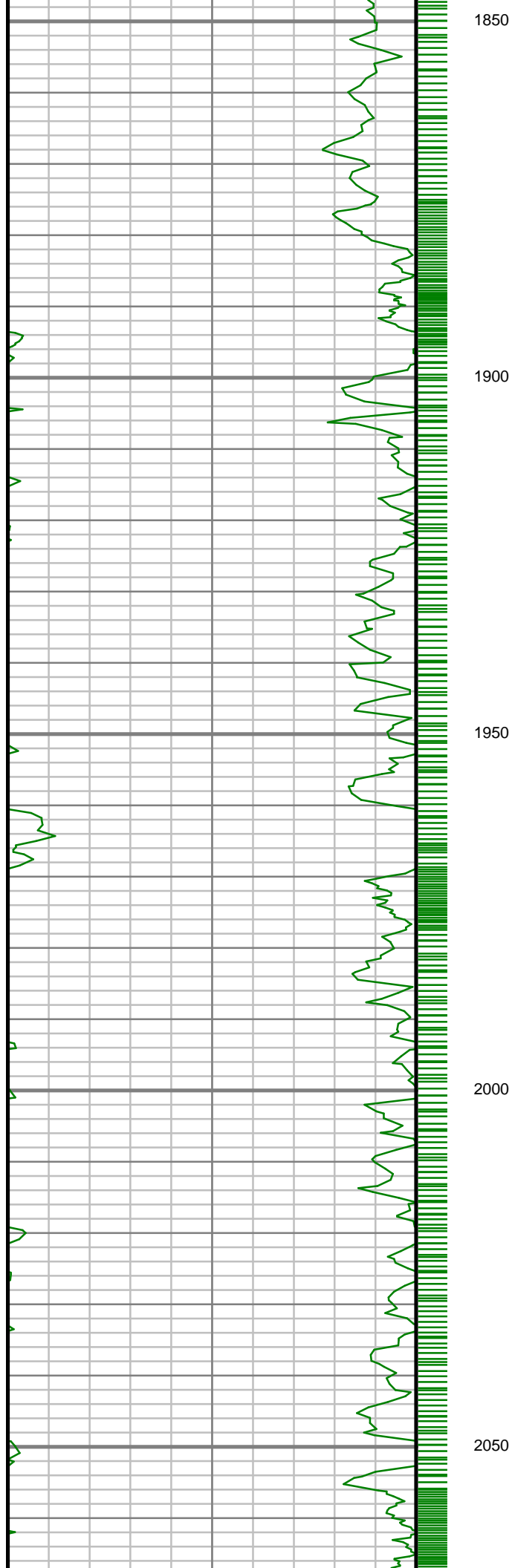
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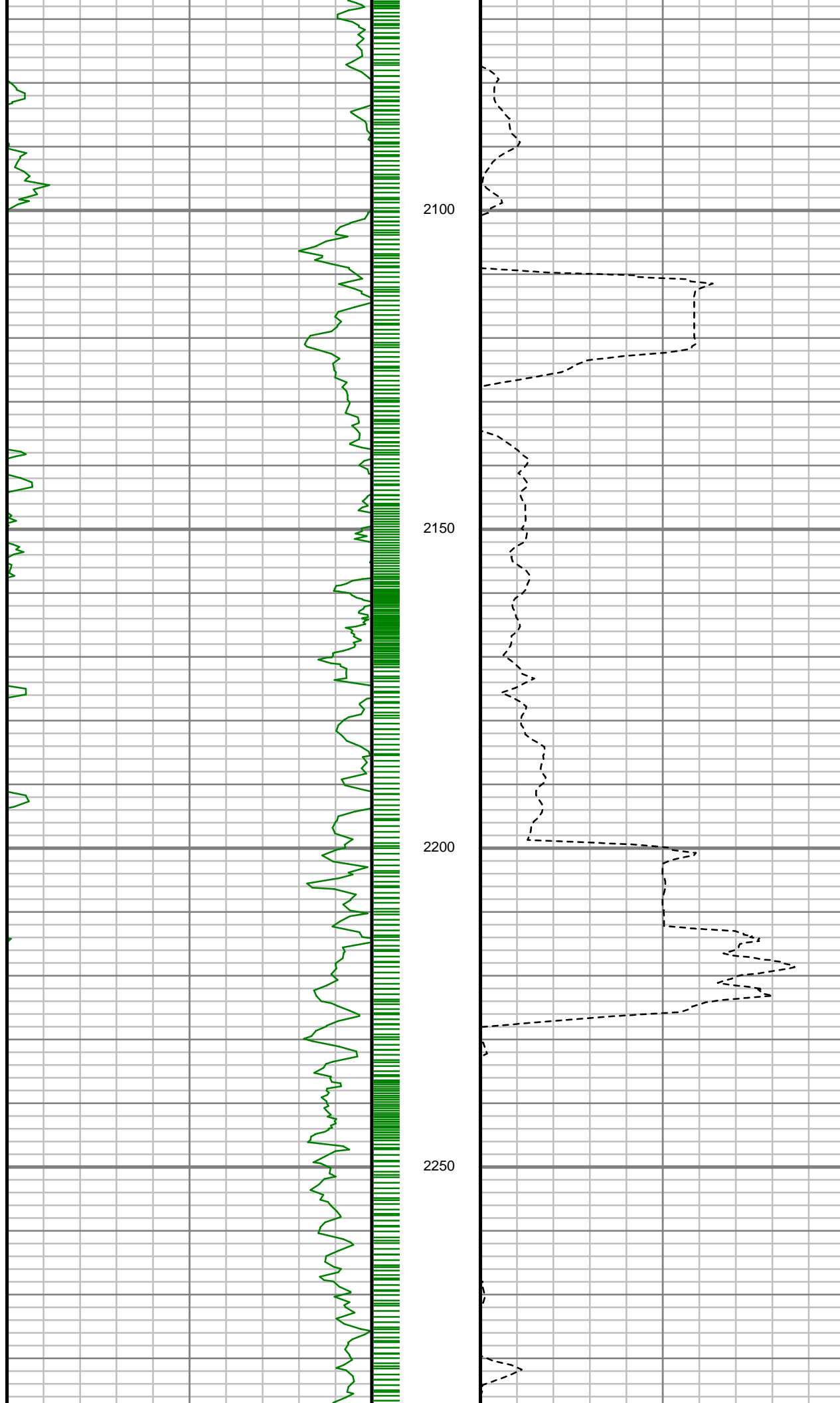
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1750

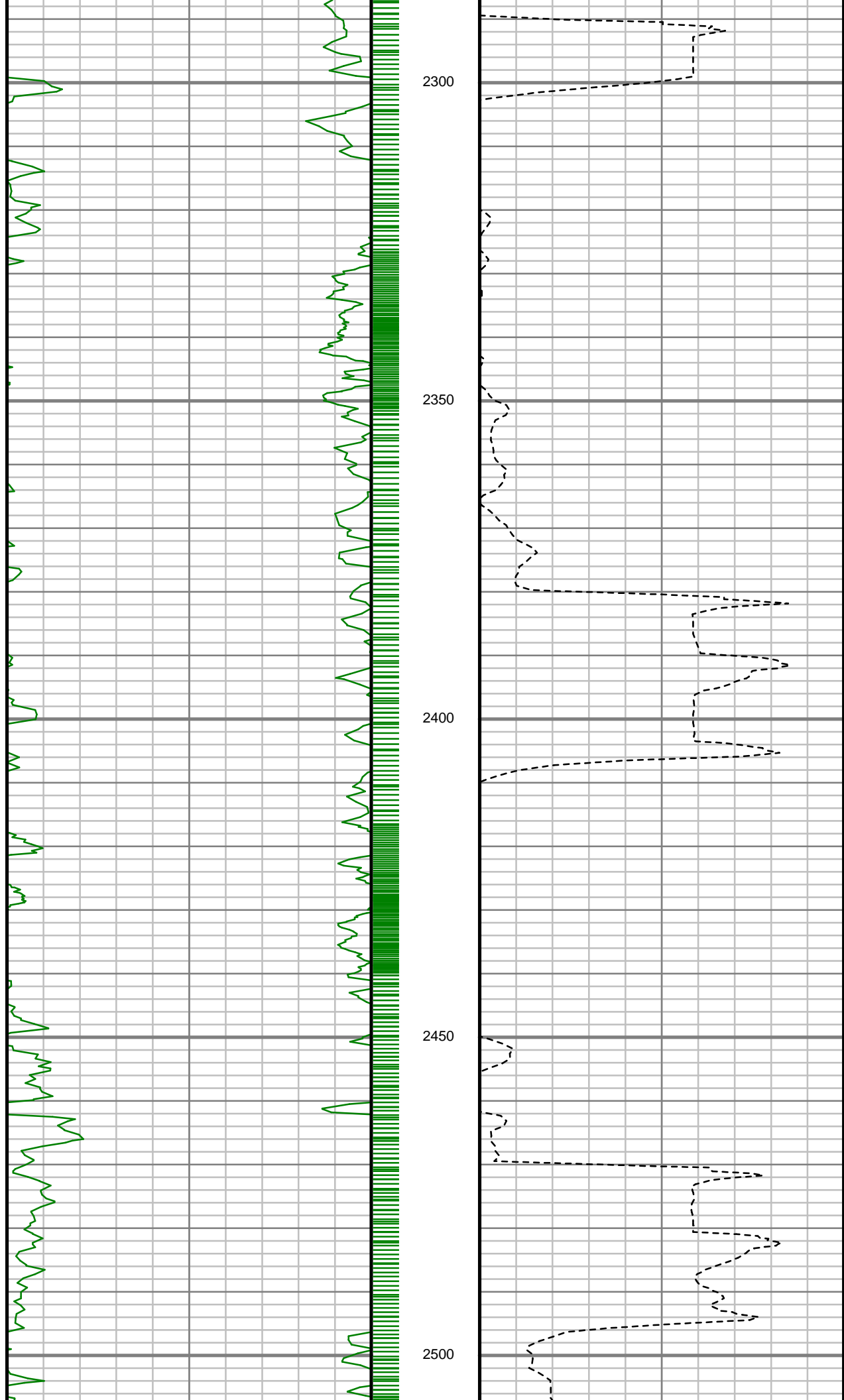
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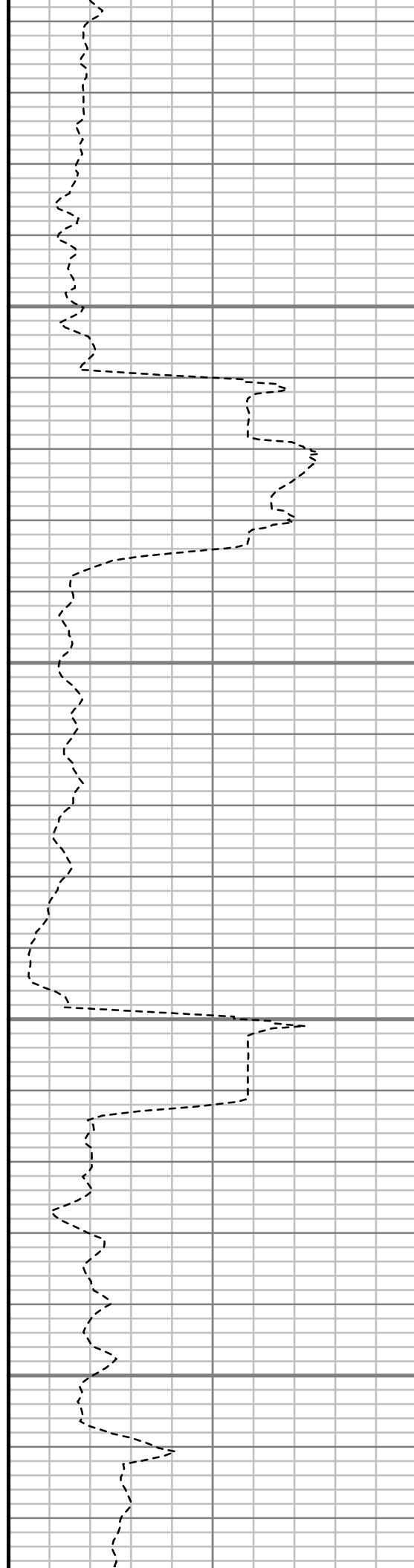
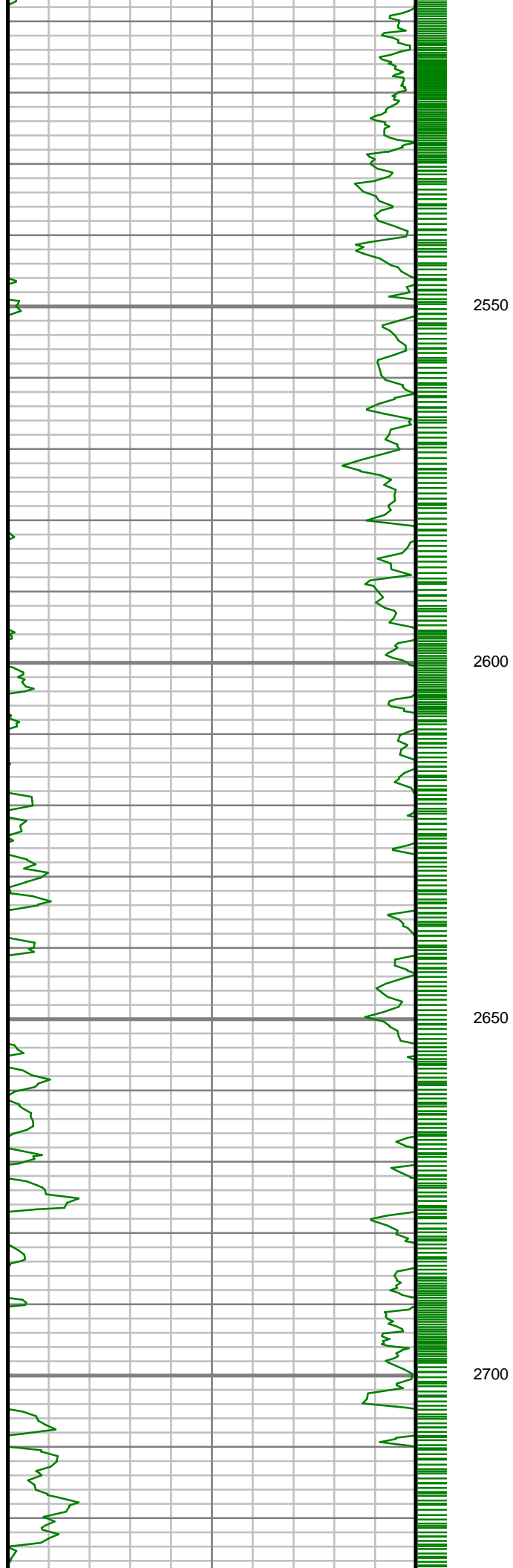


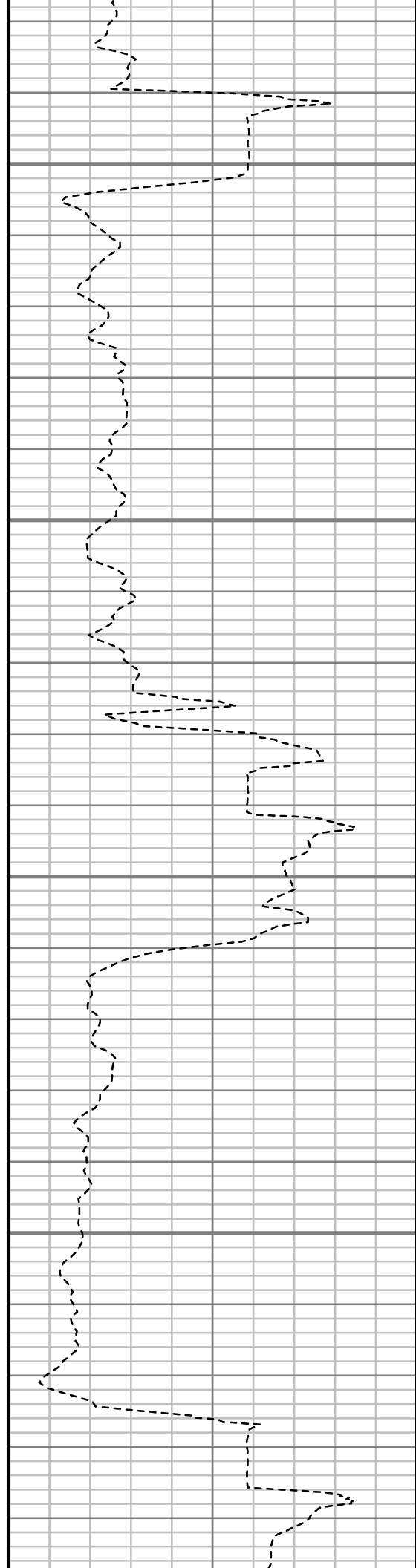
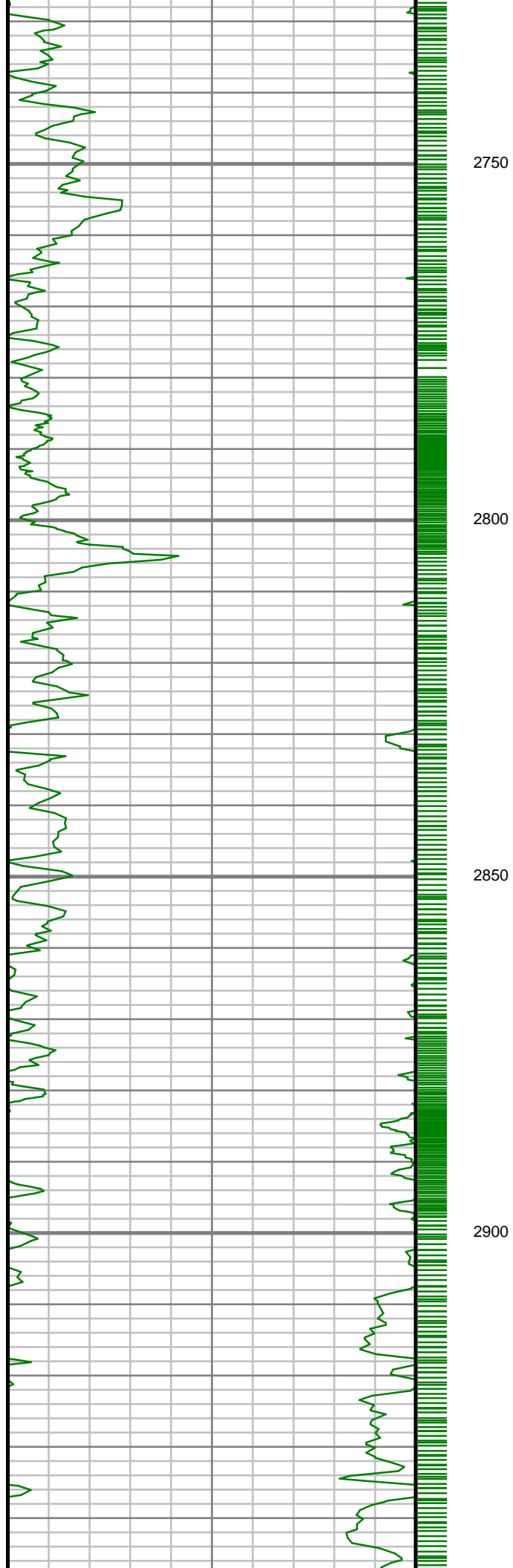


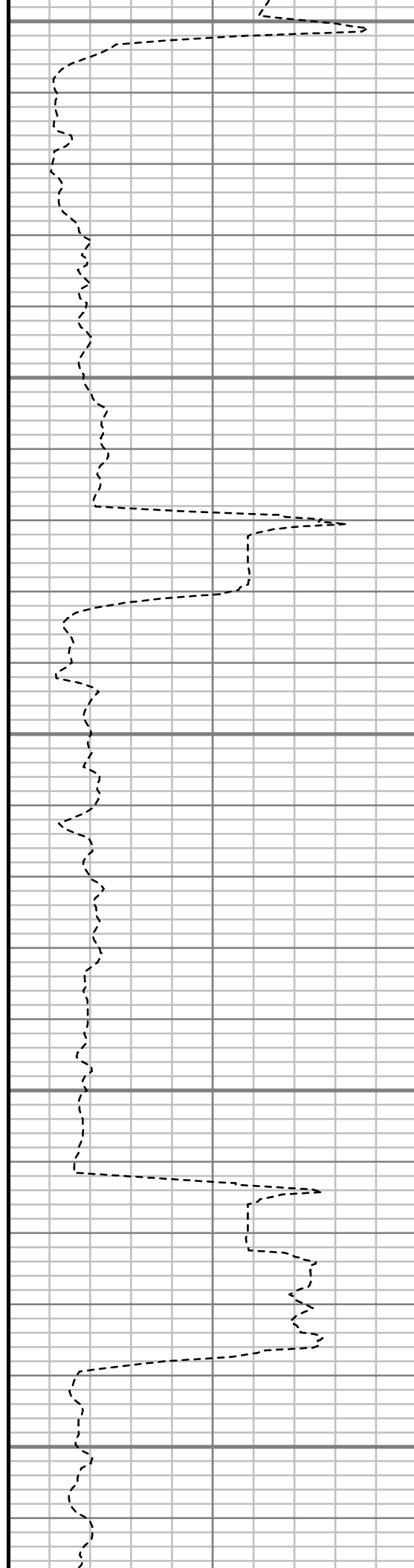
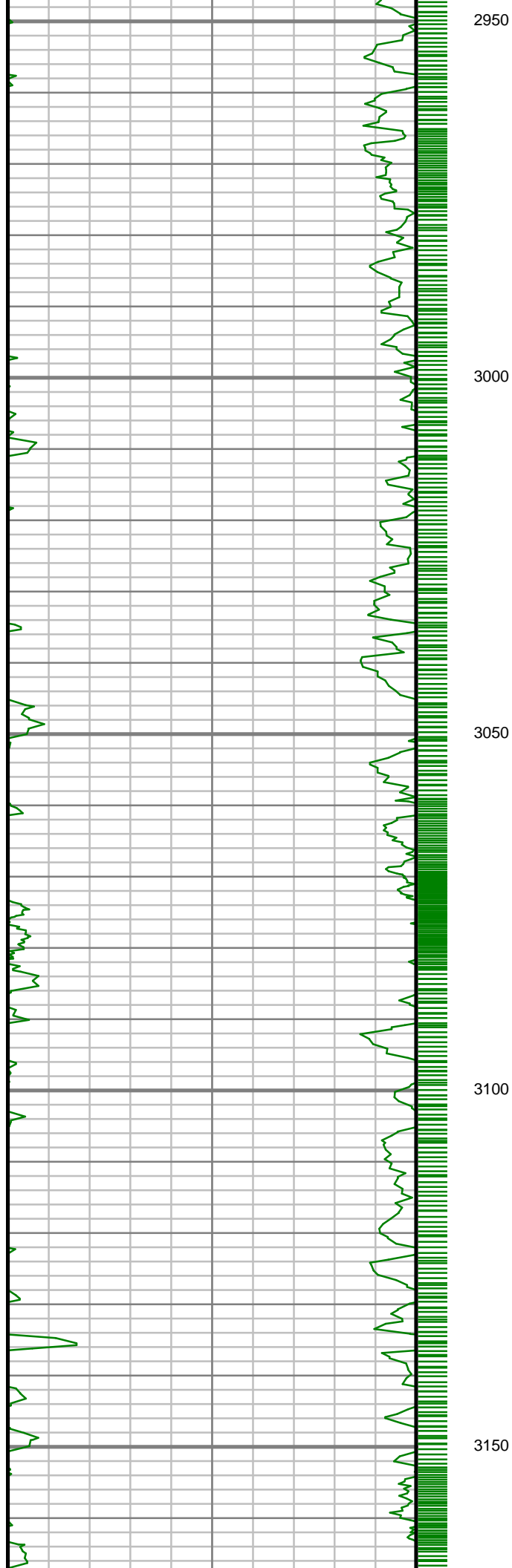


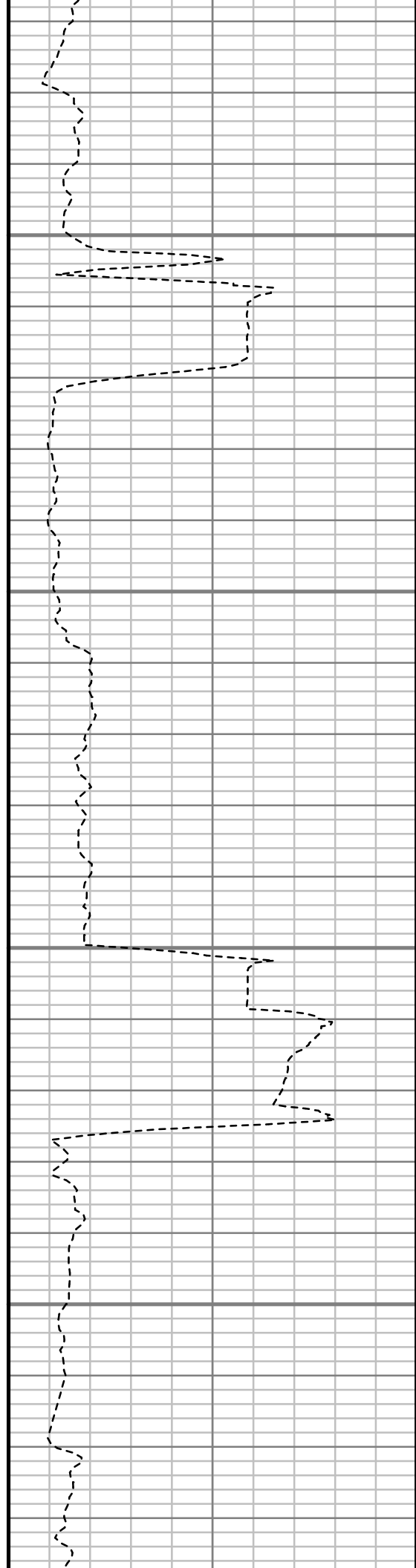
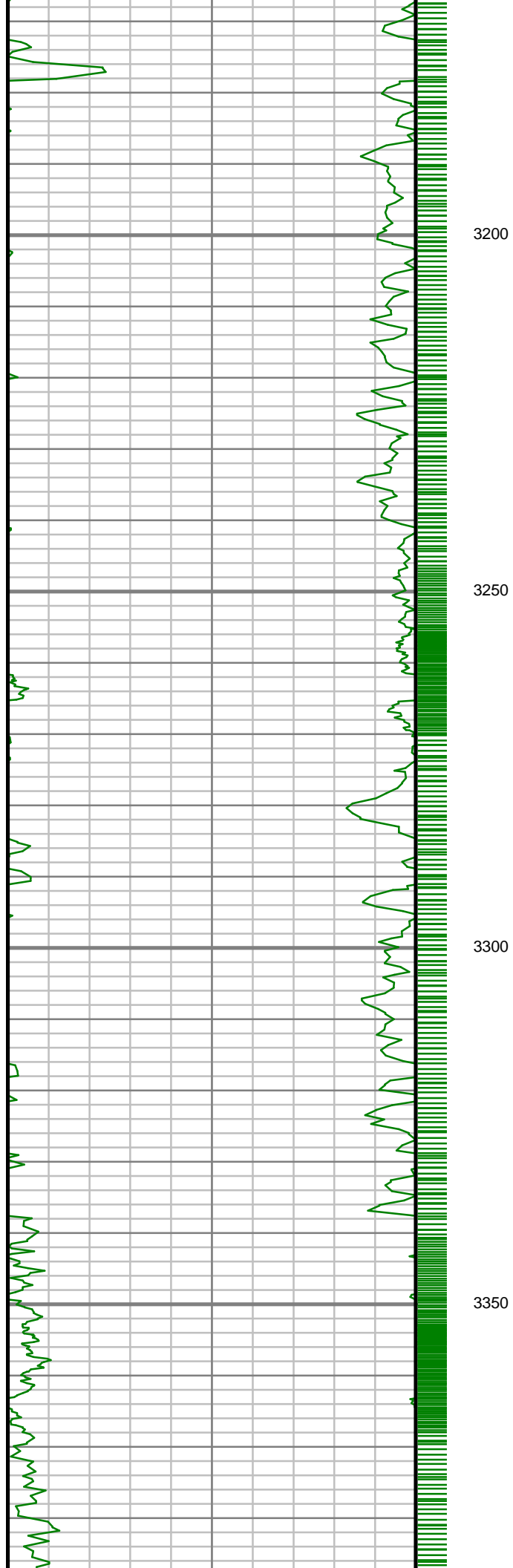


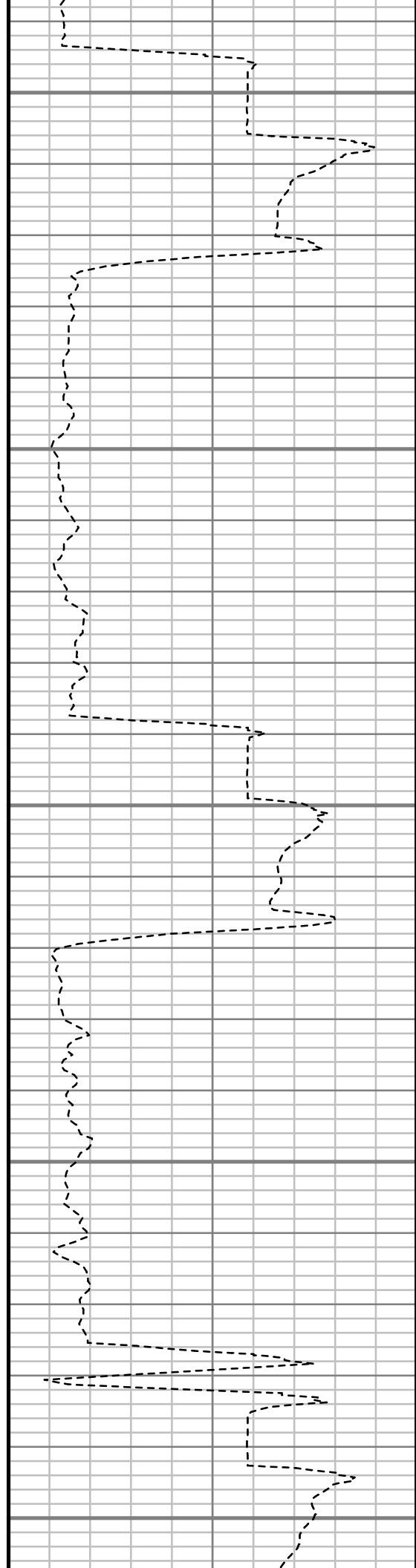
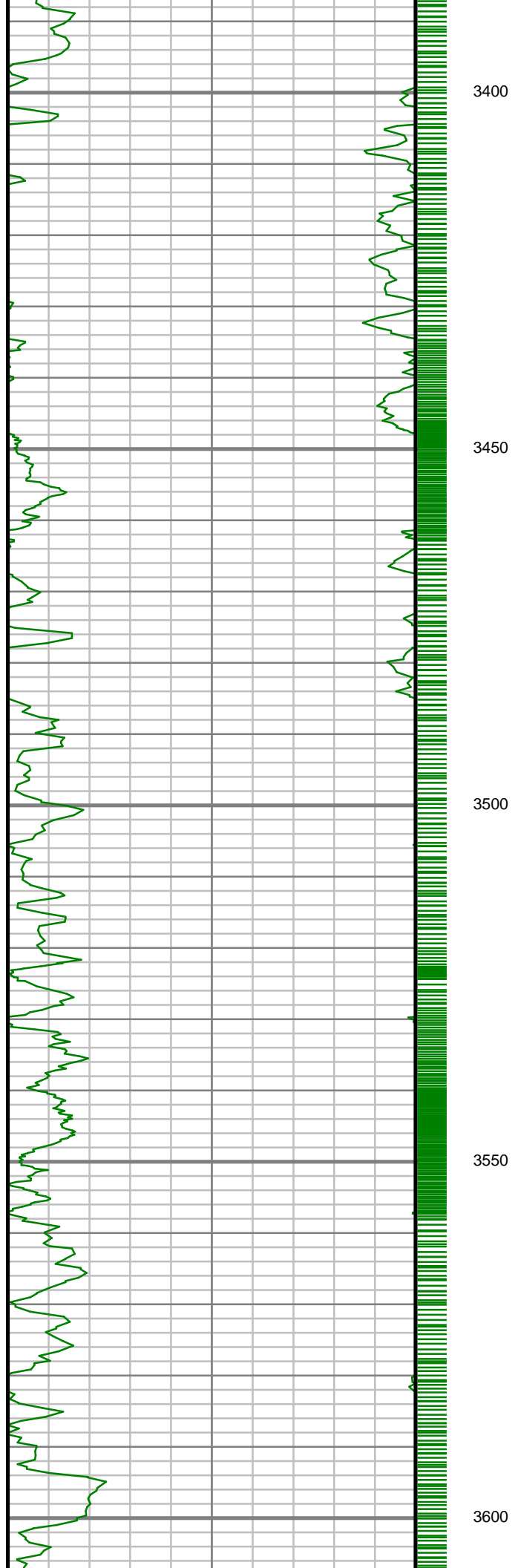


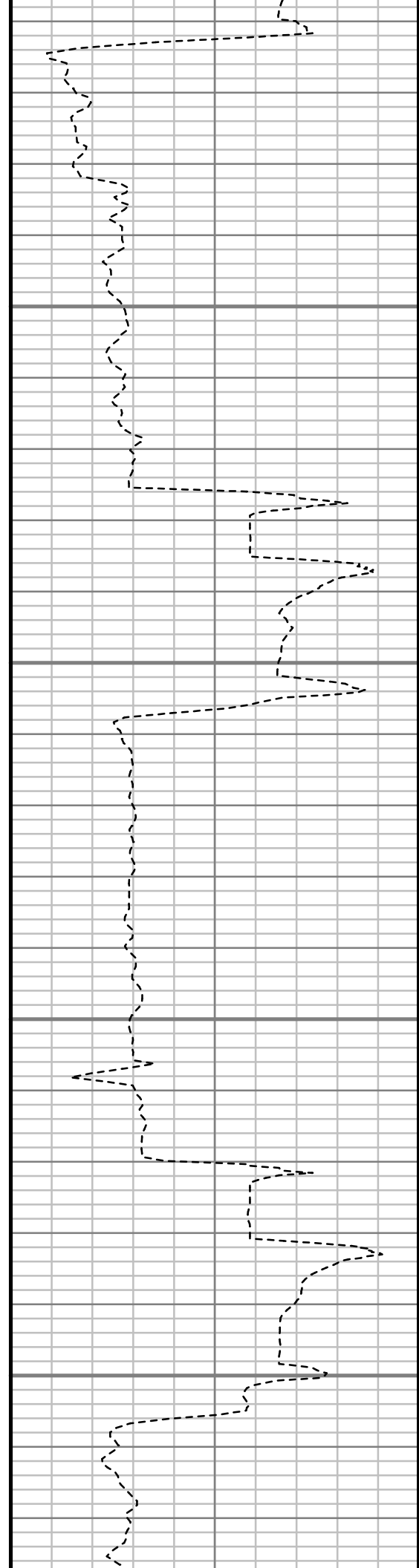
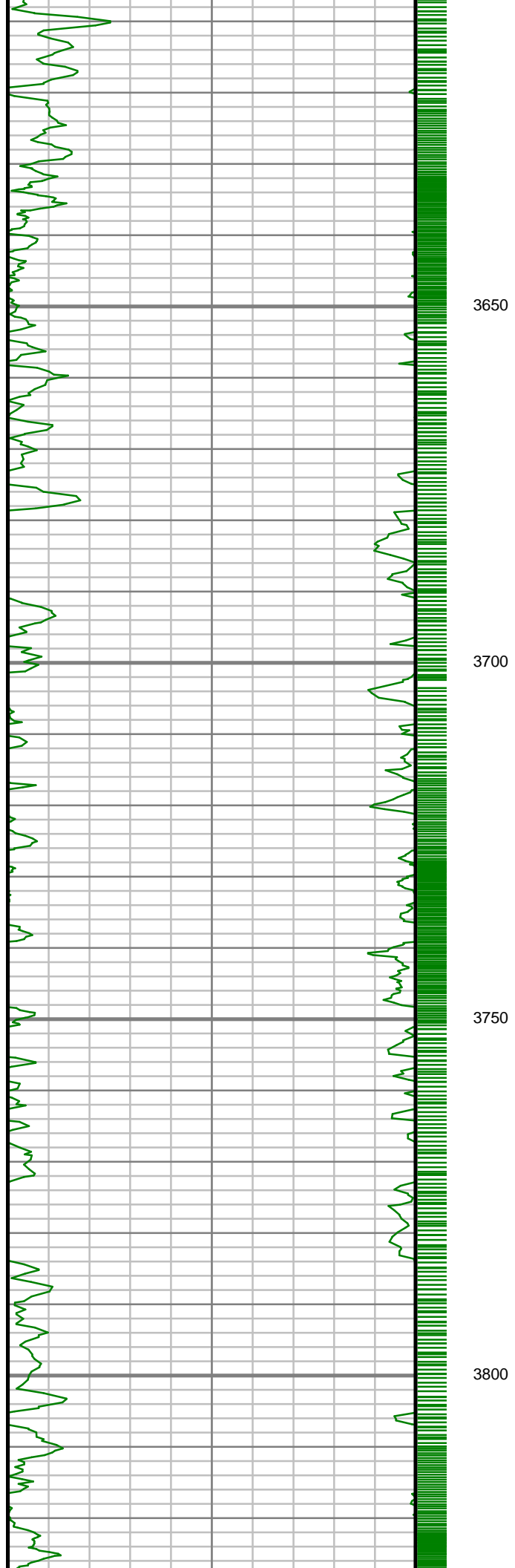


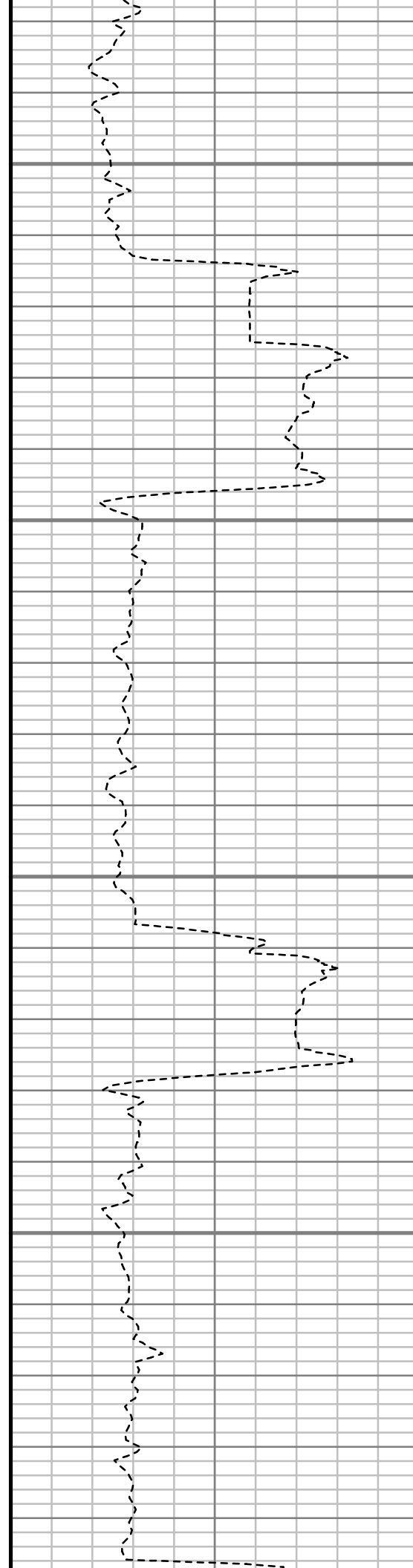
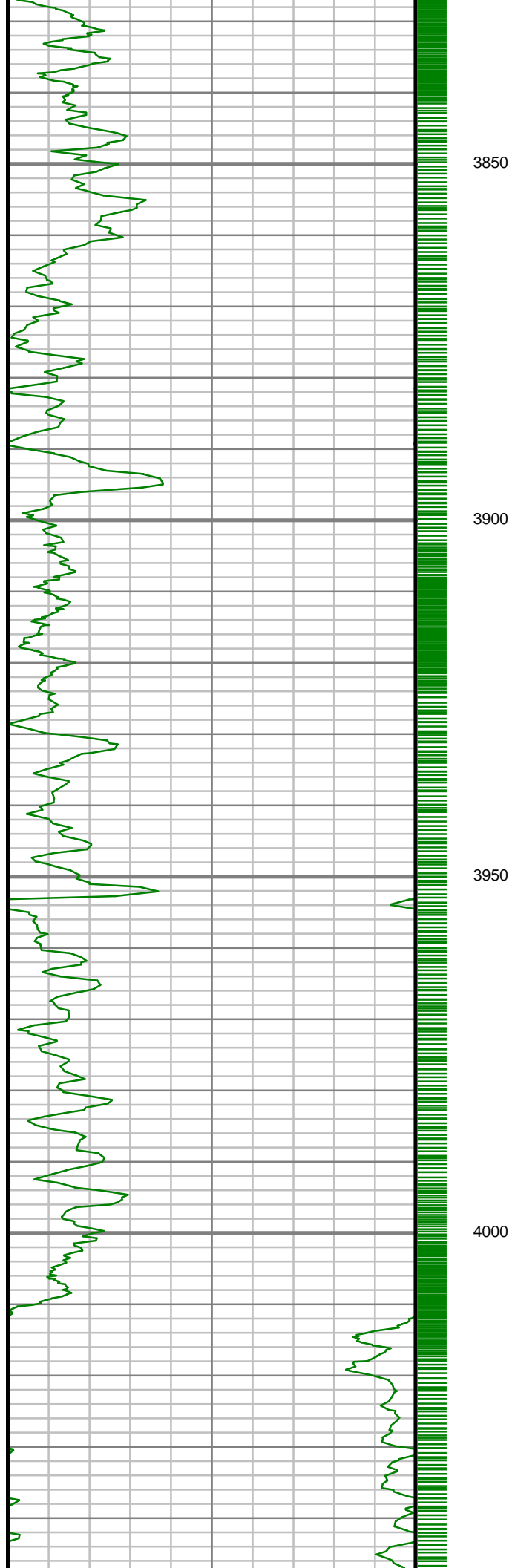




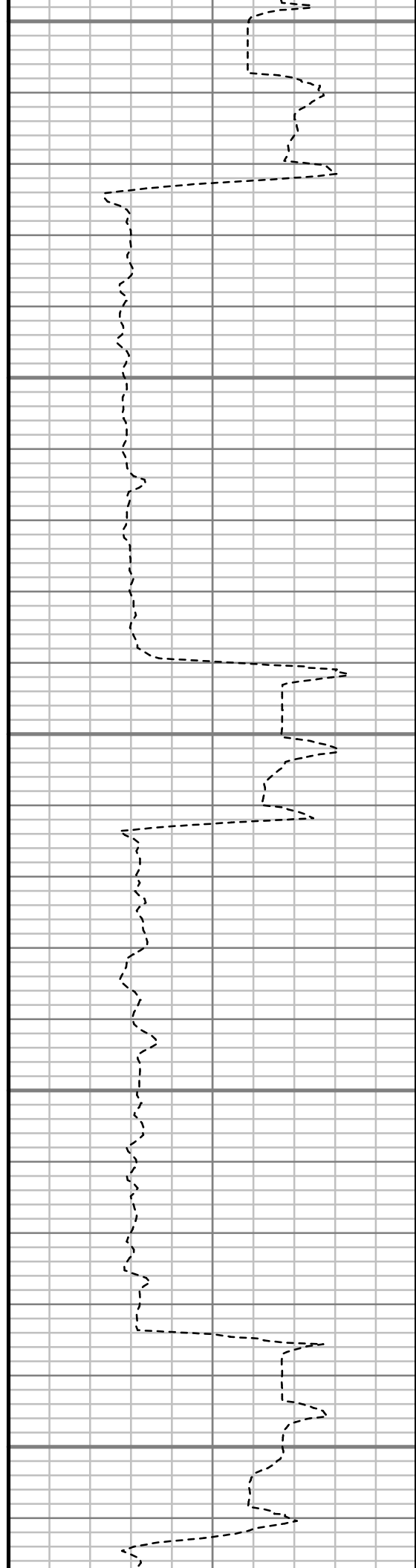
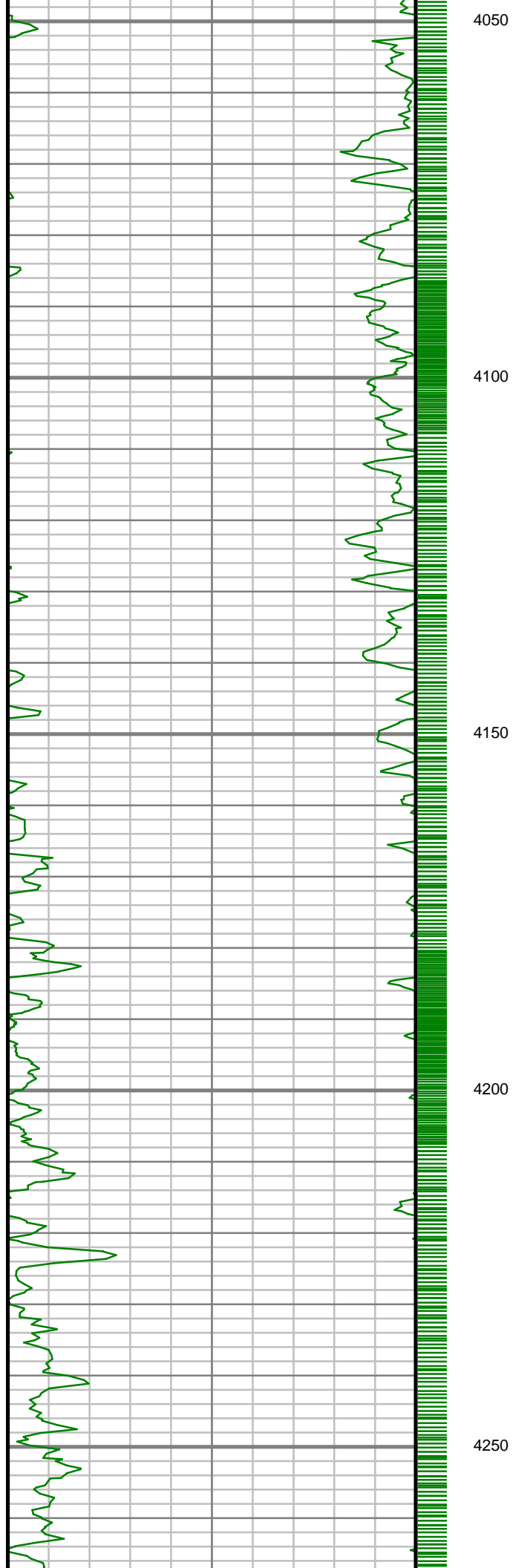


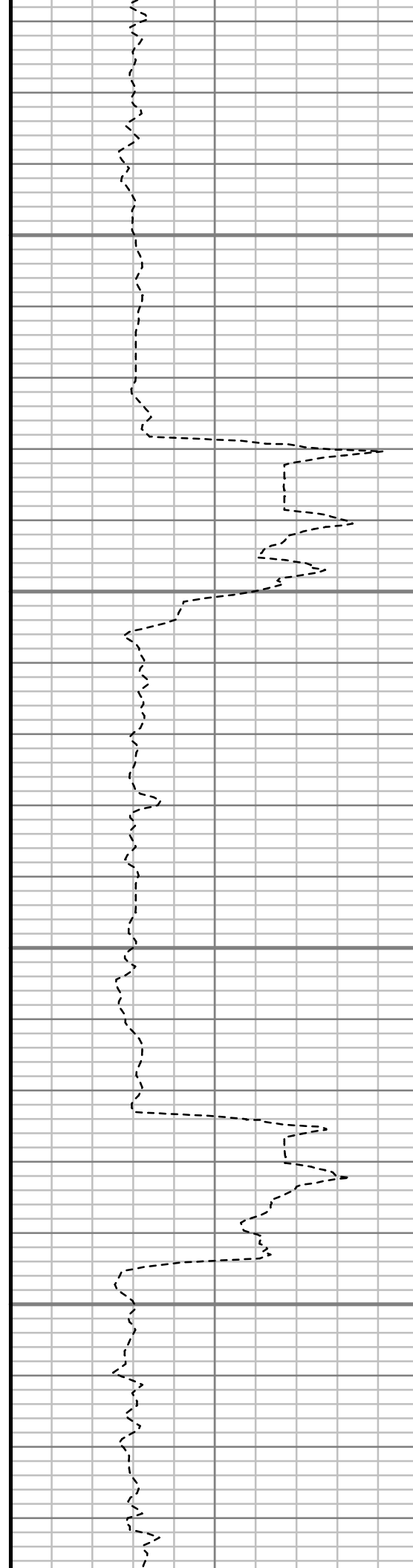
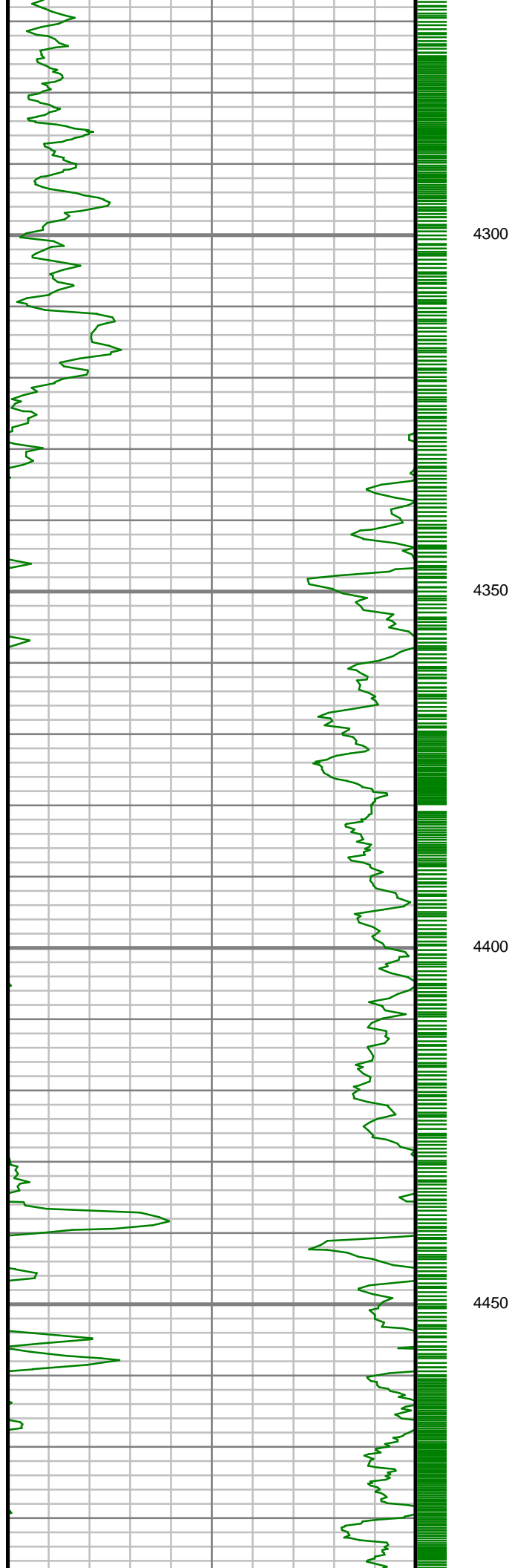


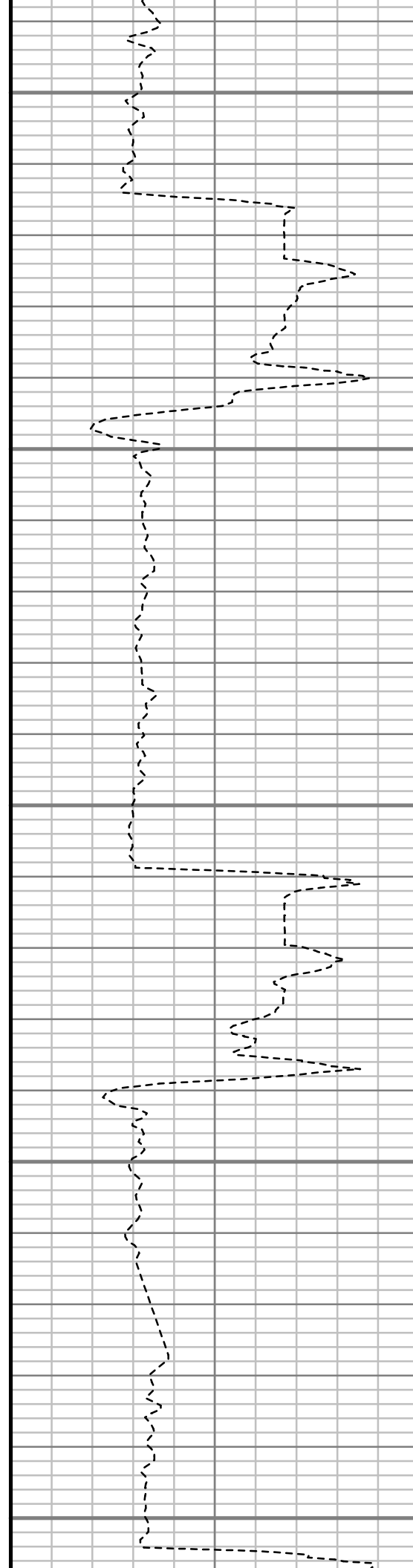
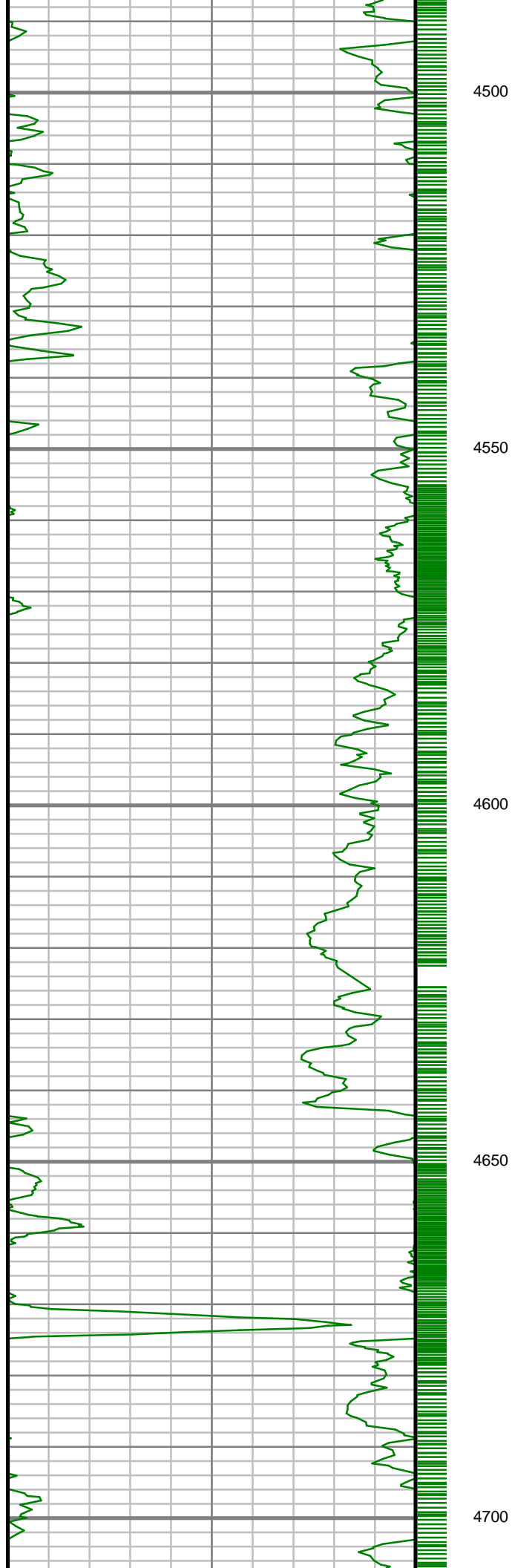


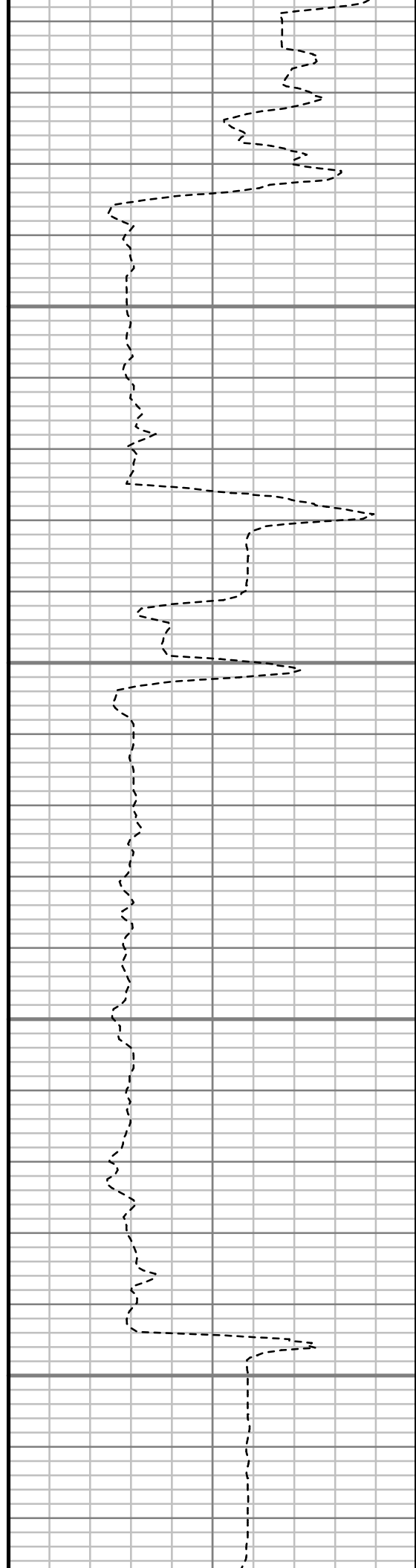
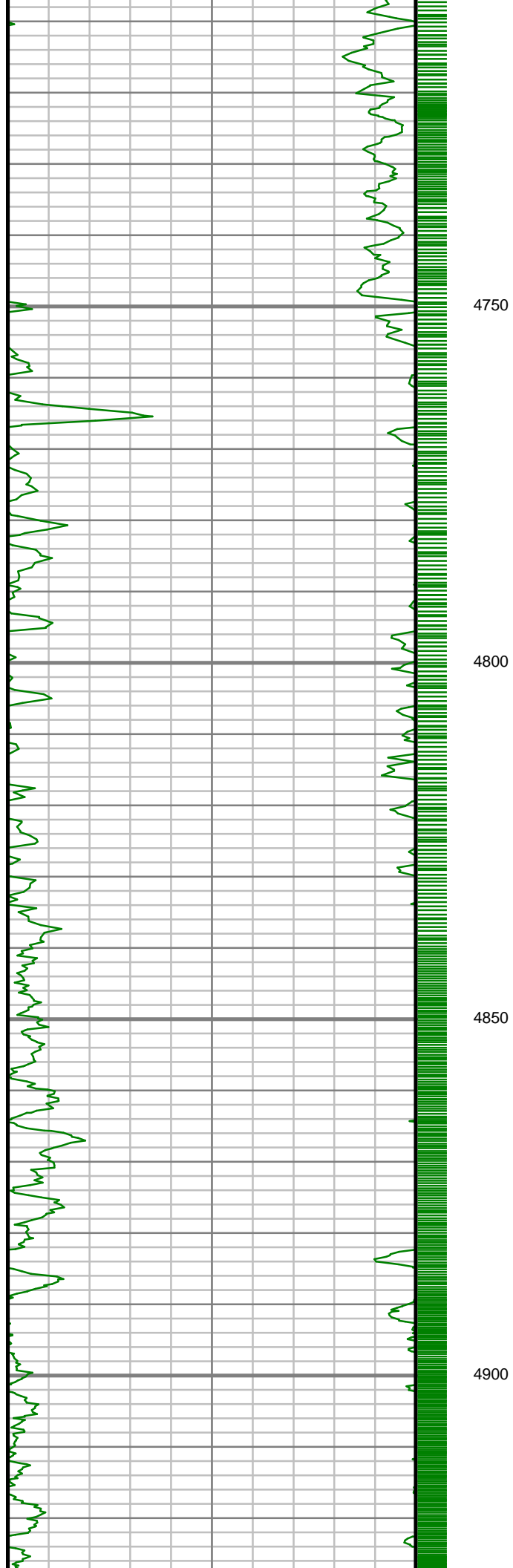


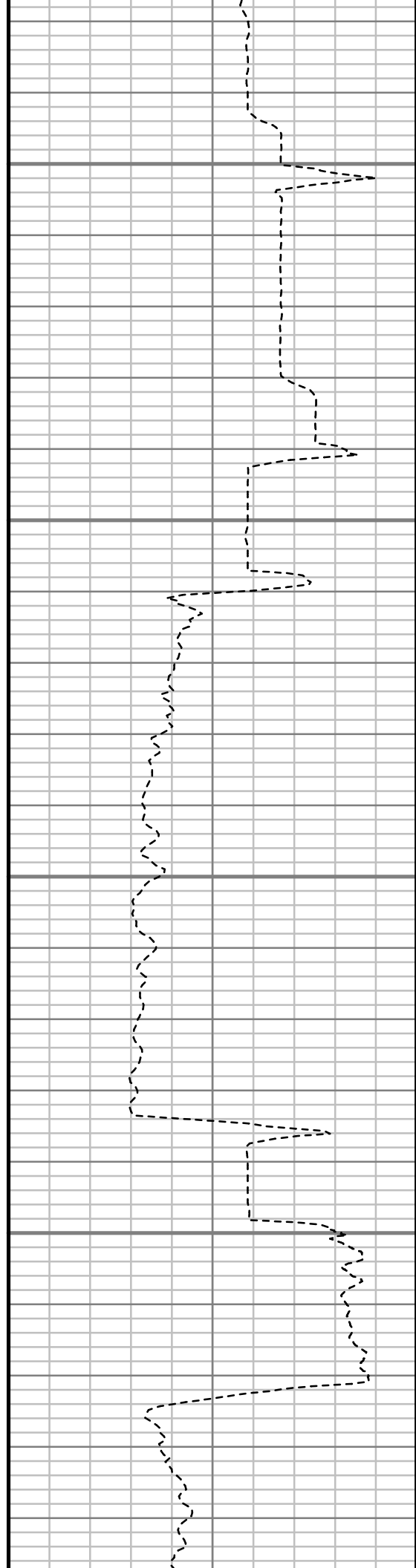
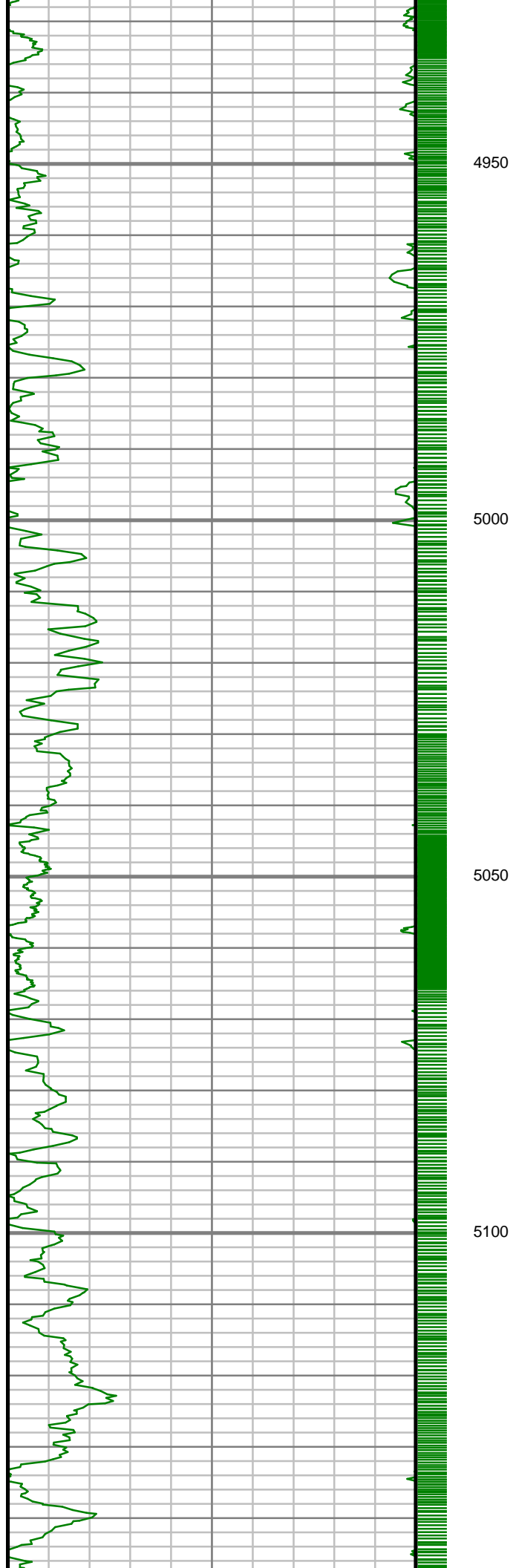


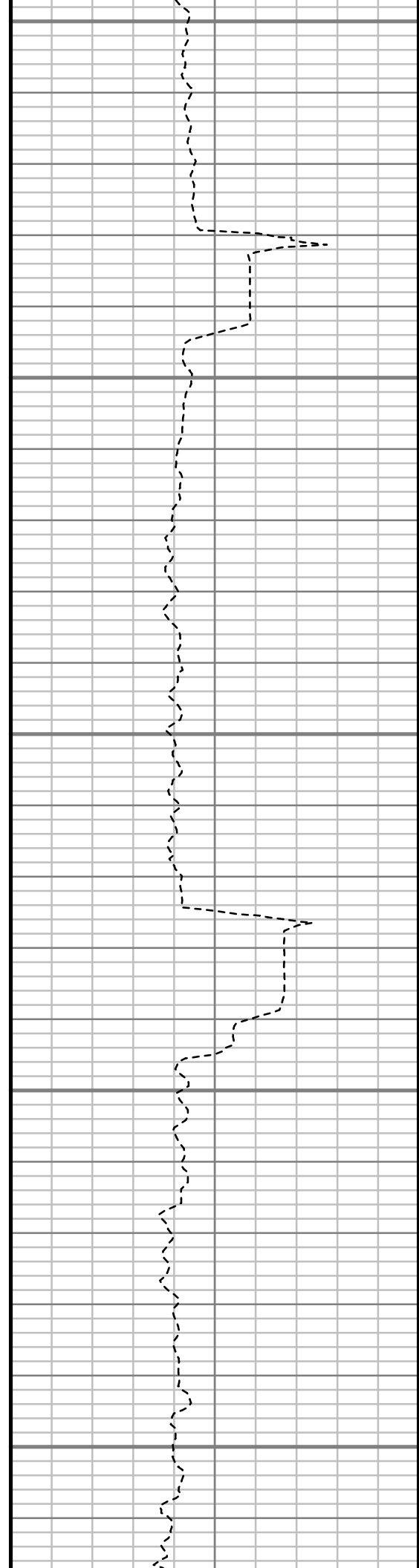
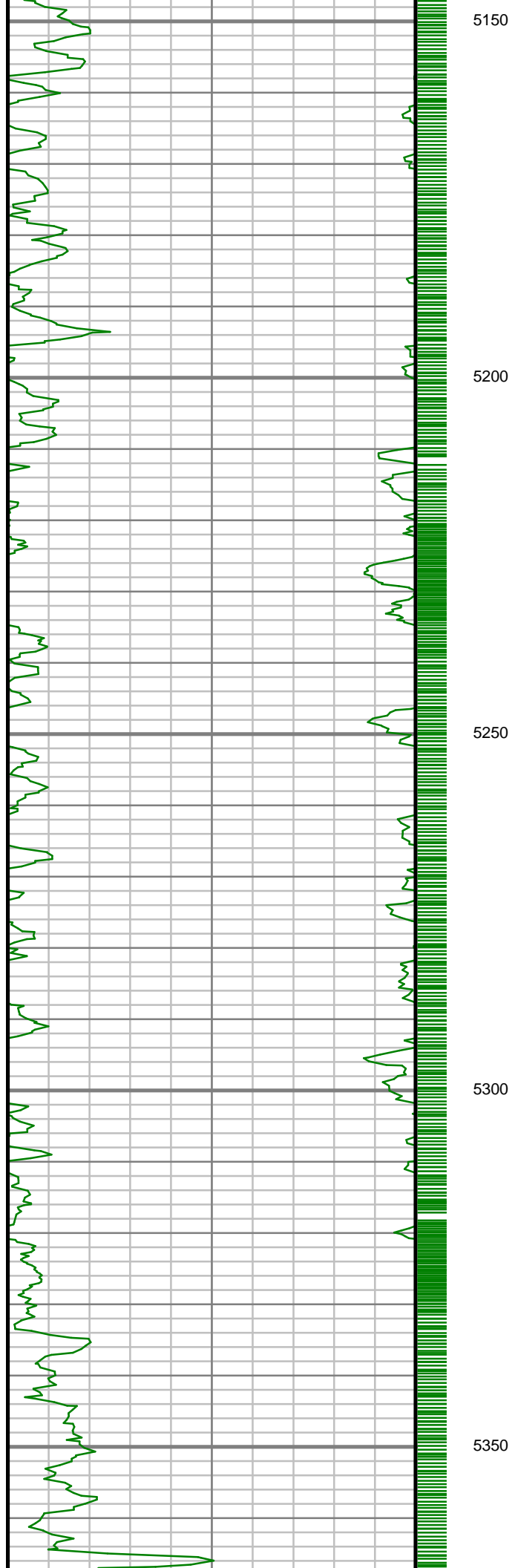


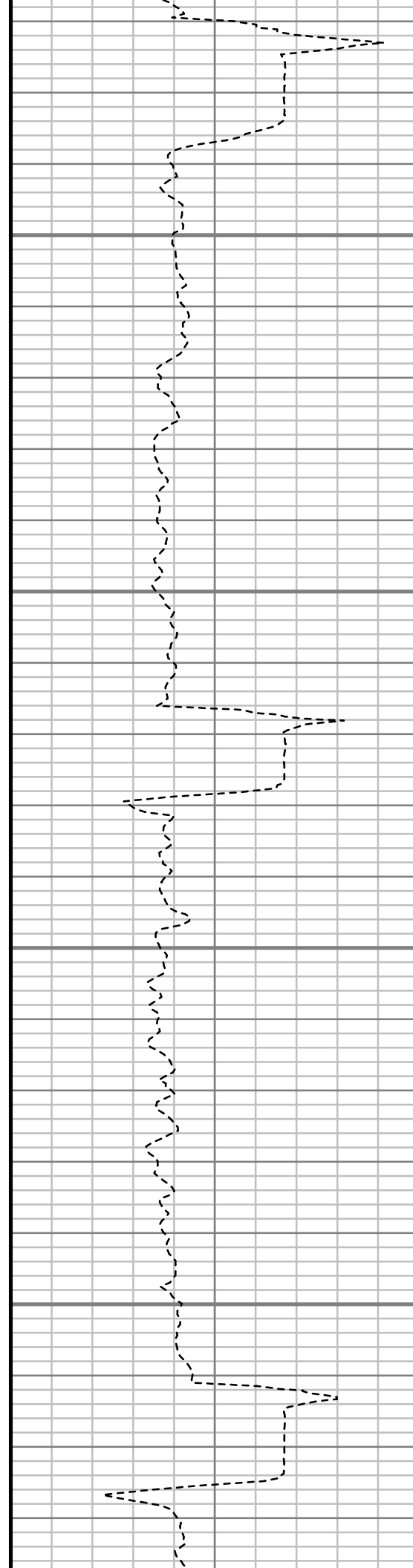
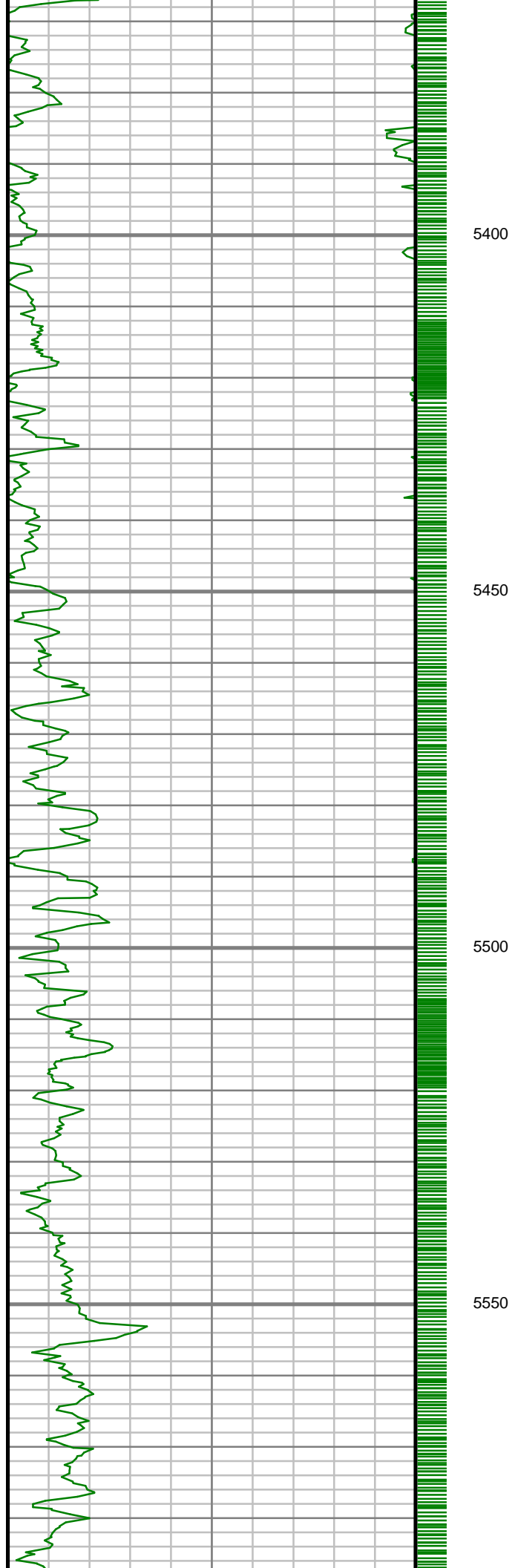


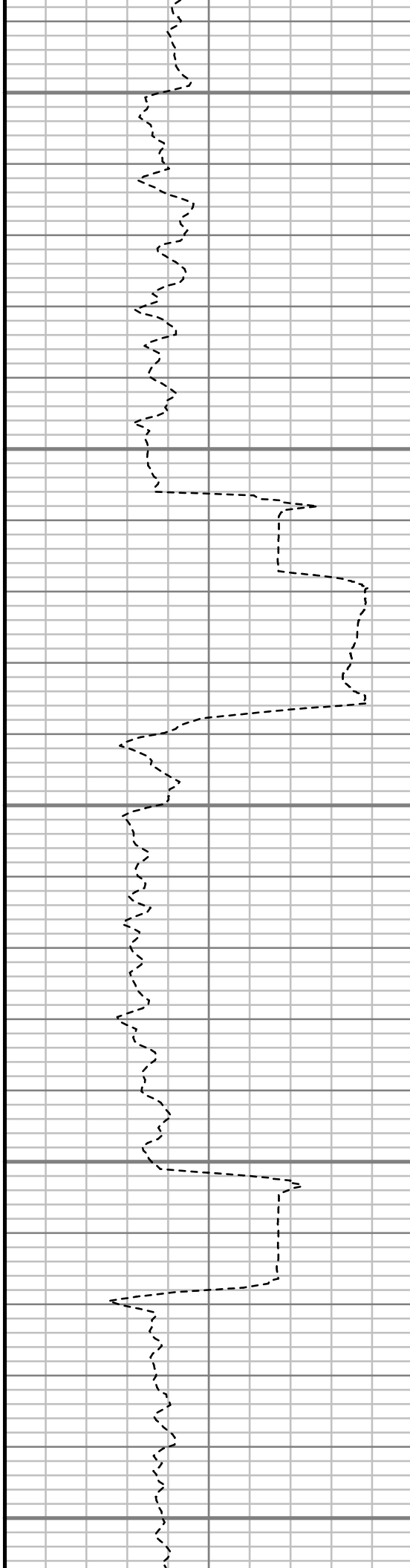
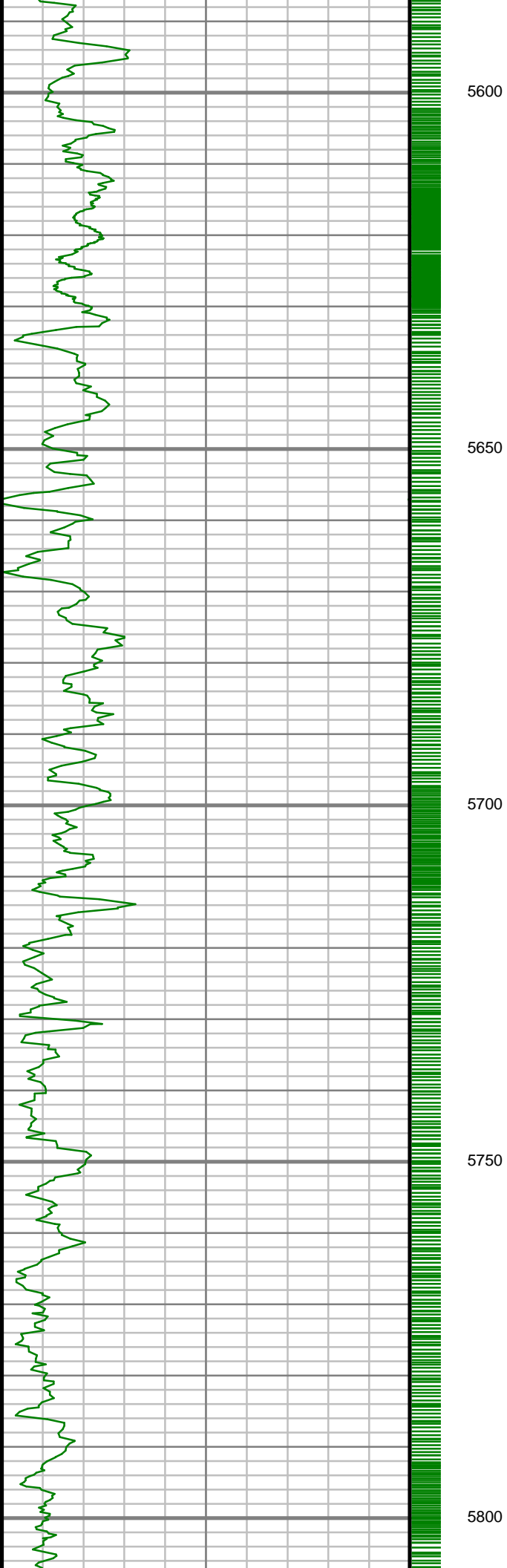




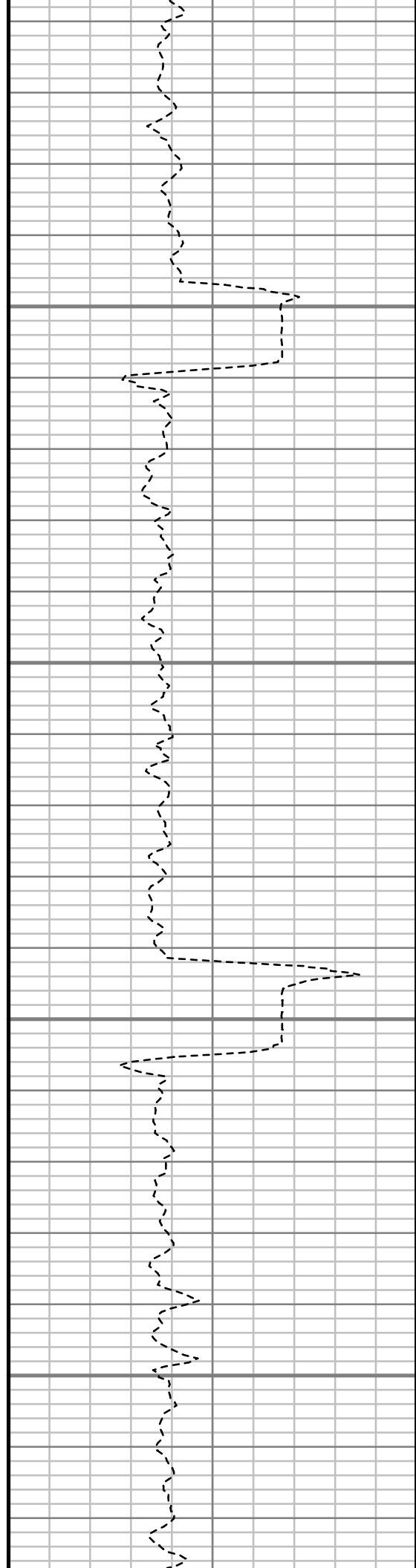
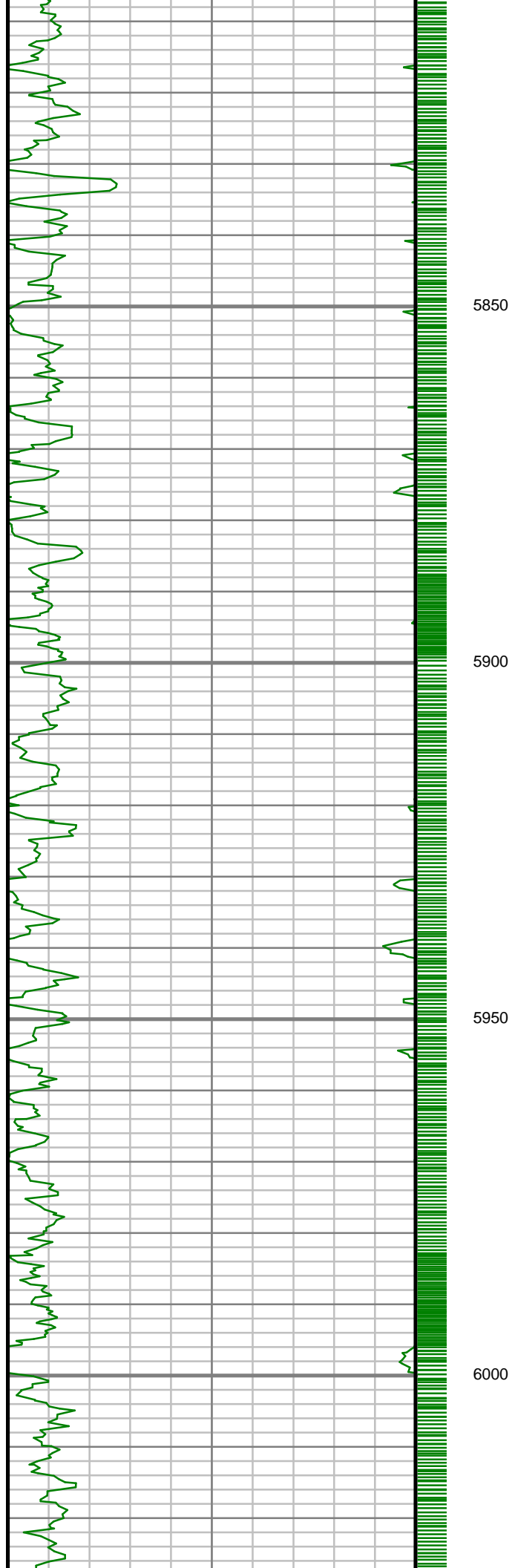


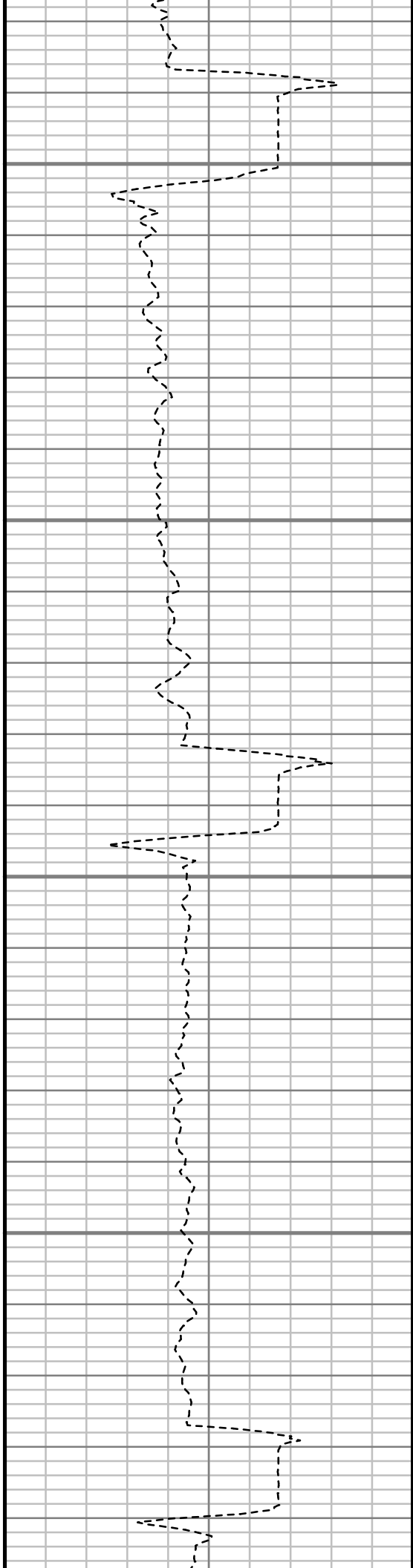
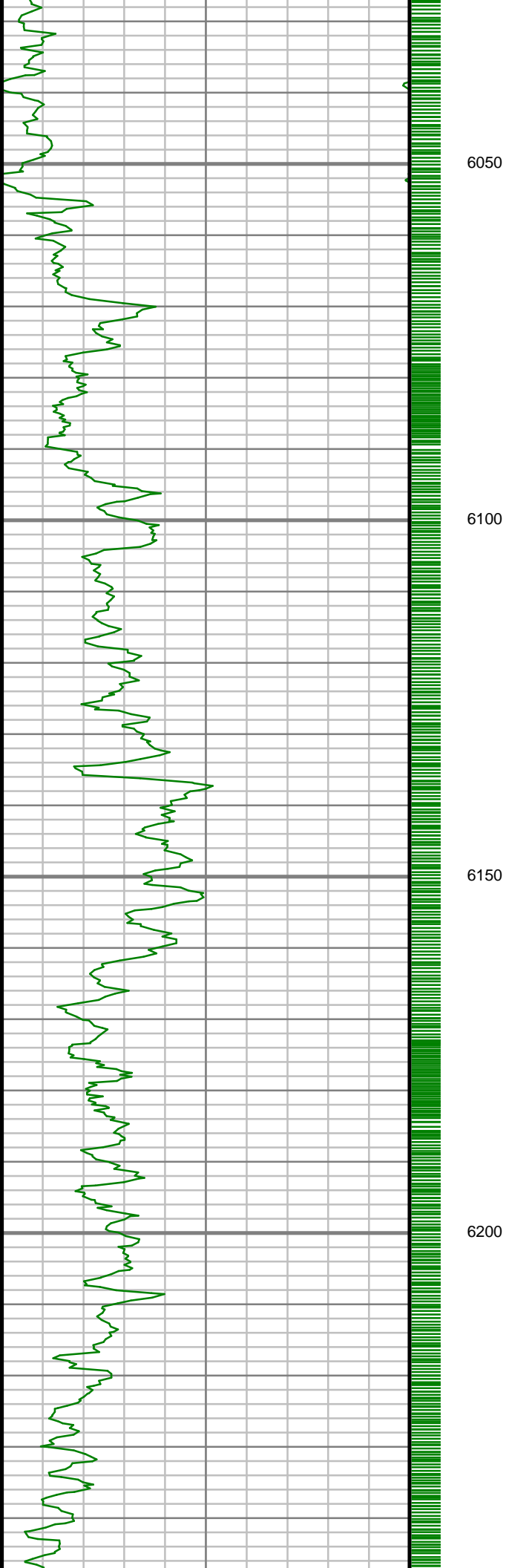


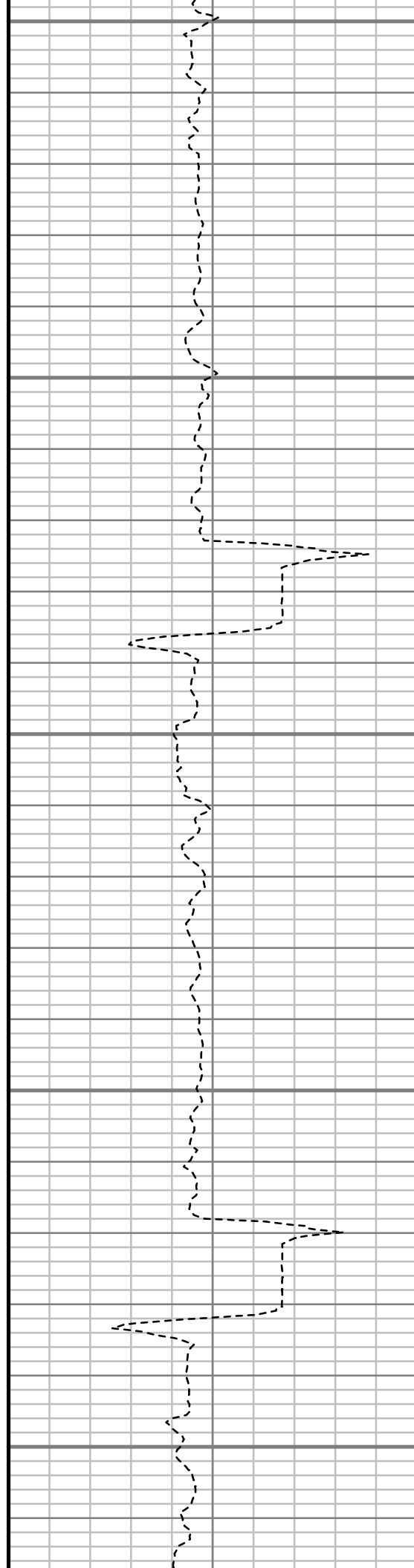
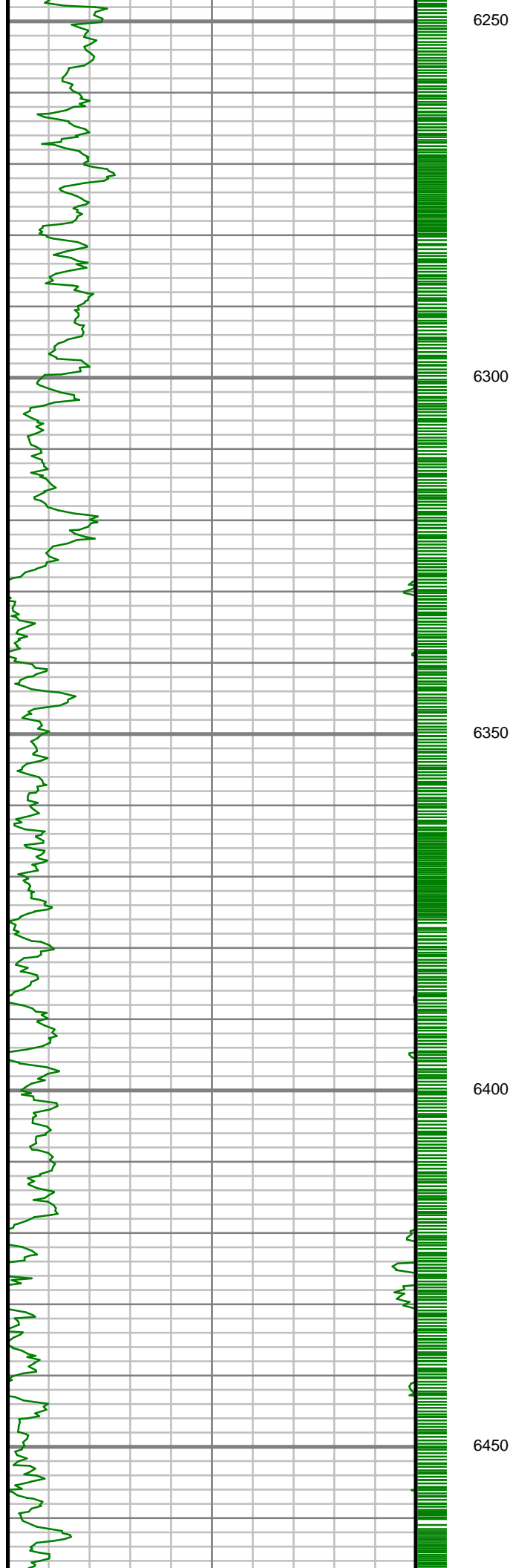


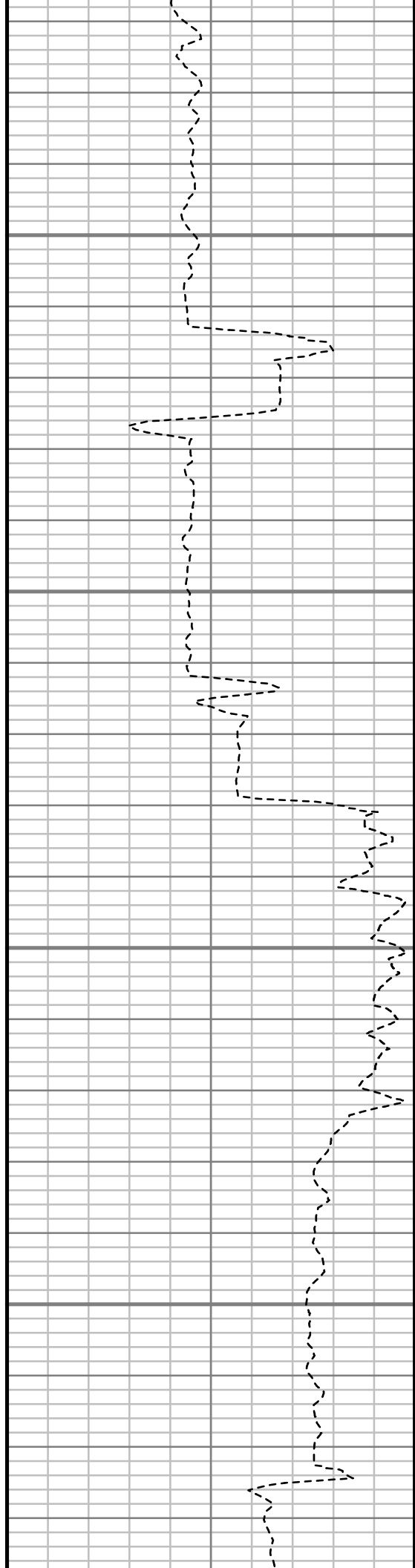
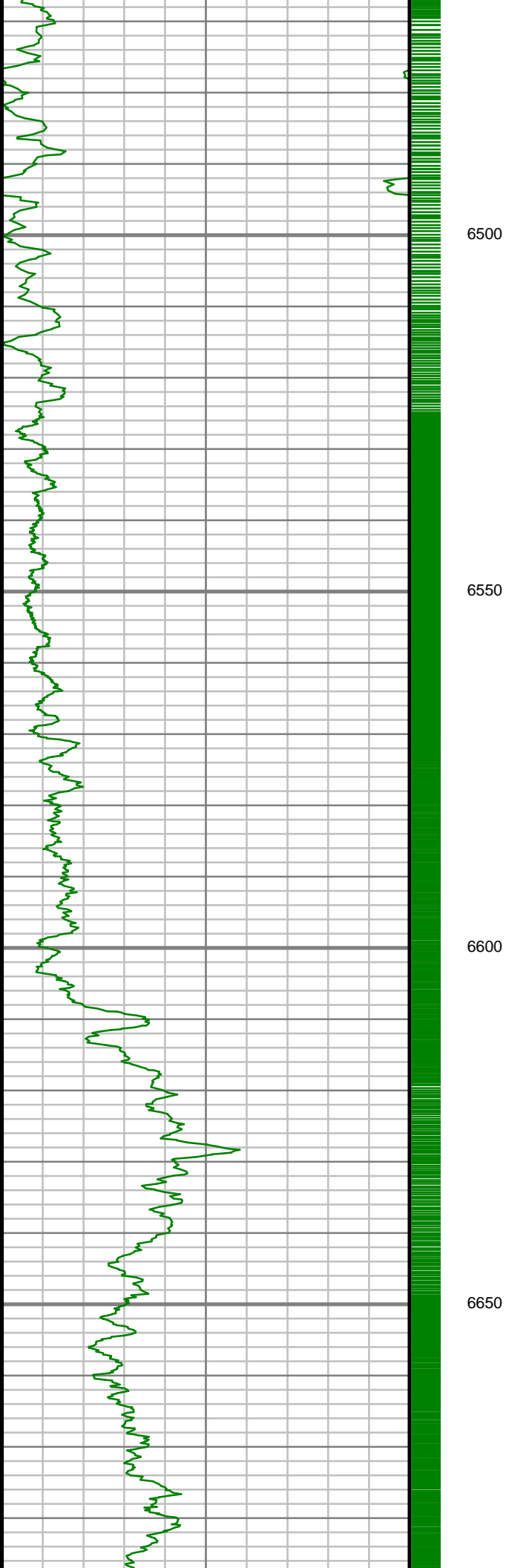


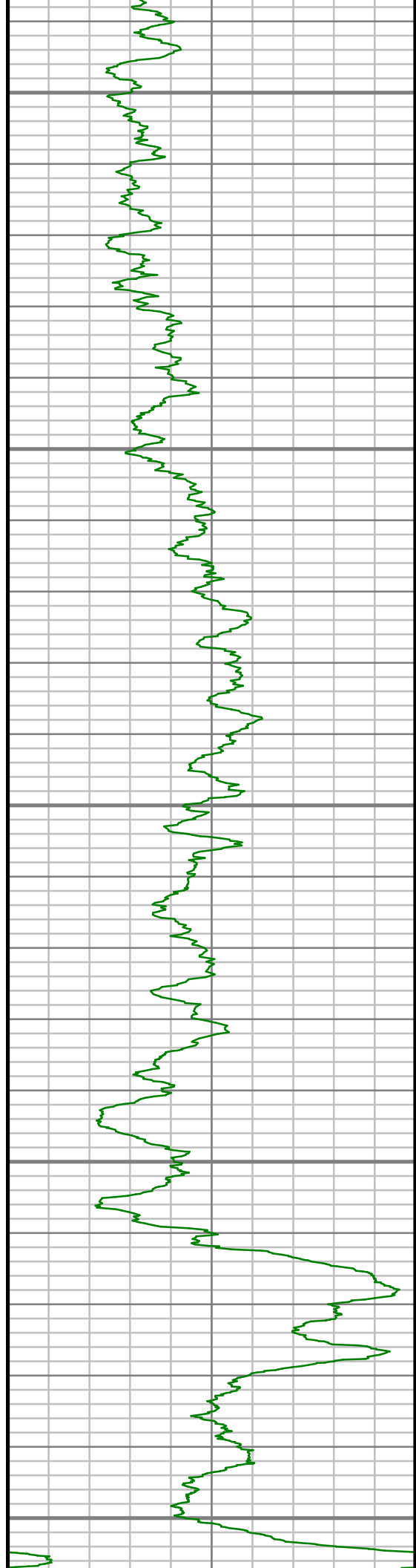












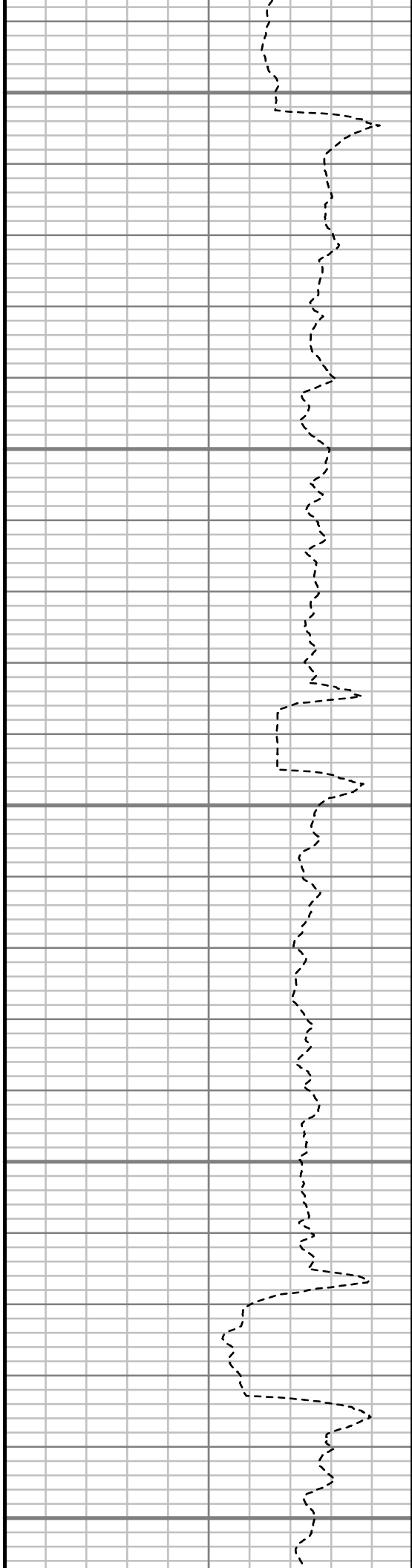
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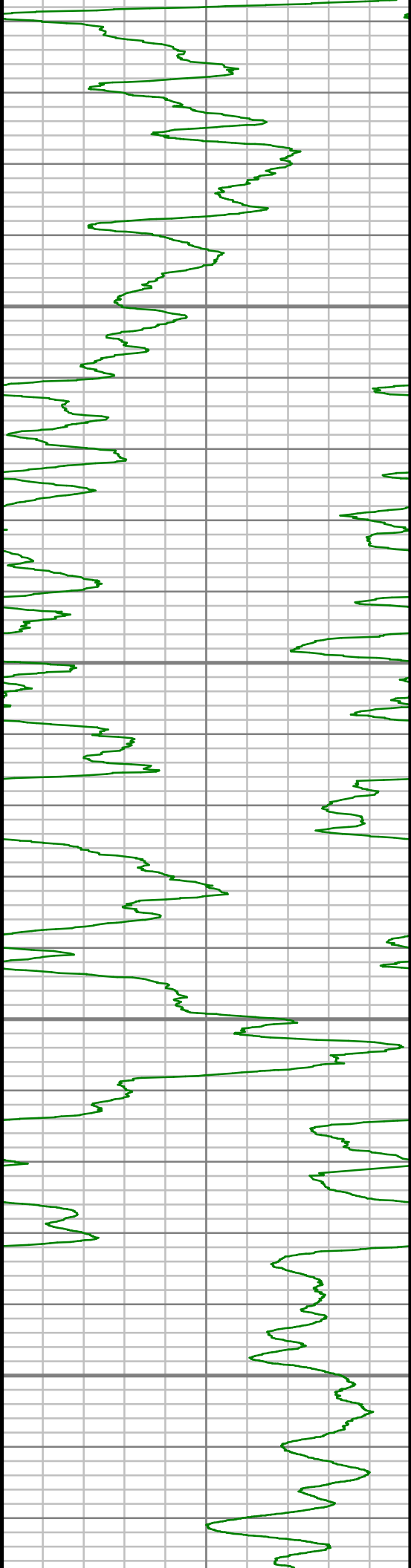
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6800

6850

6900



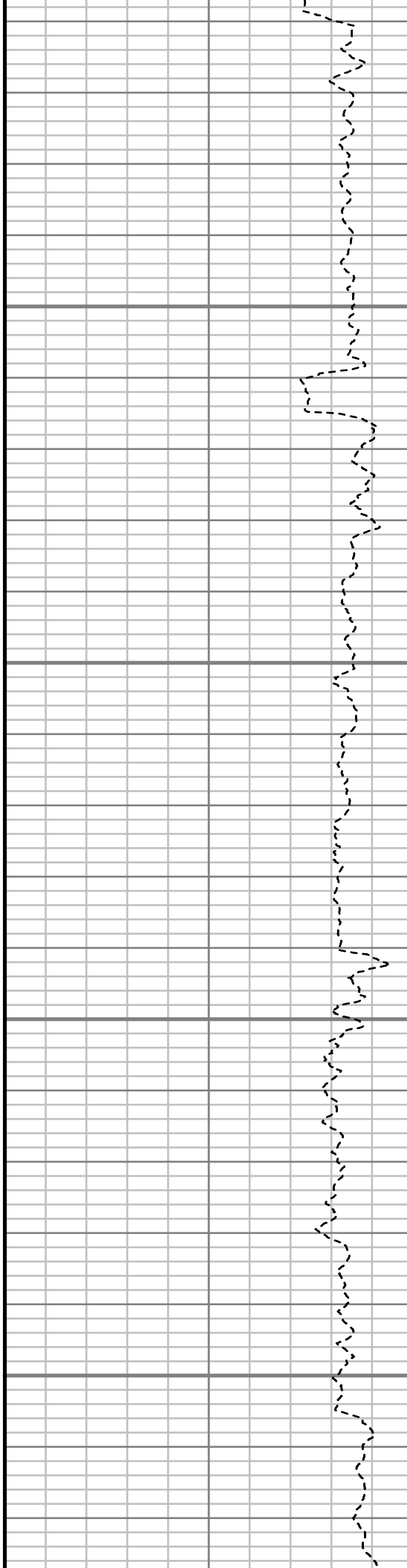


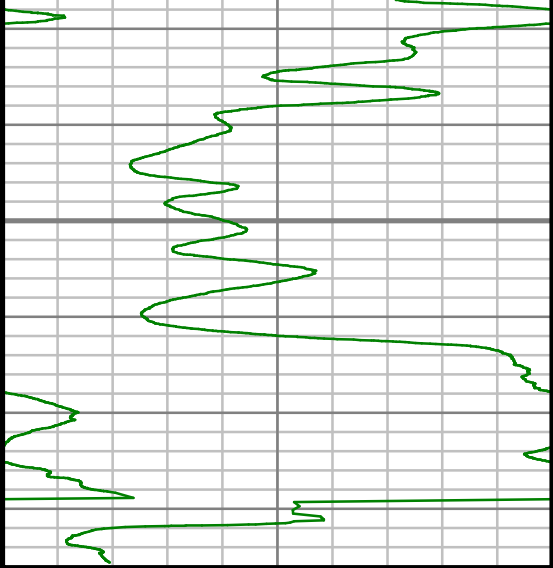
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7000

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7100



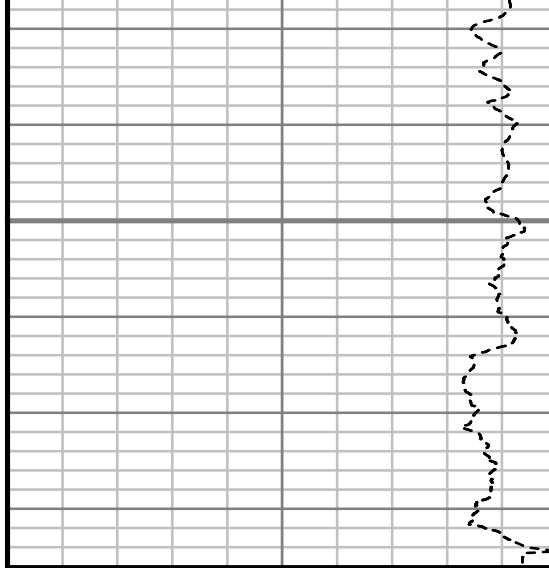


Gamma Ray (GR)

0 Unit = aapi 150

7150

TRUE VERTICAL DEPTH  
1:240 (ft)



Rate of Penetration (ROP)

600 Unit = ft/hr 0

Comments



<b>Well Location</b>	DALE PAD
<b>Well Name</b>	DALE 4B-20H-O264
<b>Survey Date</b>	8/23/2014
<b>Latitude</b>	40°7'3.511"N
<b>Longitude</b>	104°34'19.178"W
<b>Btotal</b>	52537 nT
<b>Dip</b>	66.73 deg
<b>Magnetic Declination</b>	8.38 deg
<b>North Reference</b>	True North
<b>Grid Correction</b>	None
<b>Depth Reference</b>	RKB (25.00 ft)
<b>Calculation Method</b>	Minimum Curvature
<b>Section (VS) Ref</b>	0.00N (ft), 0.00E (ft), 352.54Azim (deg)
<b>Operator(s)</b>	C. WILSON, S. WAXLER, T. LE

## Well Notes

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	%/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
140.00	0.35	288.63	140.00	0.19	0.14	-0.41	0.43	288.63	0.25
232.00	0.26	188.61	232.00	0.11	0.02	-0.71	0.71	271.47	0.52
323.00	1.58	224.30	322.98	-0.87	-1.09	-1.62	1.95	236.03	1.51
415.00	2.64	224.91	414.92	-2.95	-3.50	-4.00	5.31	228.82	1.15
507.00	5.01	227.46	506.71	-6.55	-7.72	-8.46	11.45	227.62	2.59
598.00	6.51	241.70	597.25	-10.68	-12.85	-15.93	20.47	231.10	2.26
690.00	7.30	239.06	688.58	-14.86	-18.33	-25.54	31.44	234.33	0.93
781.00	8.01	241.96	778.77	-19.39	-24.28	-36.09	43.50	236.07	0.88
873.00	8.27	238.80	869.85	-24.31	-30.72	-47.41	56.49	237.05	0.56
964.00	8.01	236.43	959.93	-29.73	-37.62	-58.28	69.37	237.16	0.47
1045.00	8.09	231.94	1040.13	-35.12	-44.25	-67.47	80.69	236.74	0.78
1154.00	8.02	231.44	1148.06	-42.95	-53.72	-79.46	95.91	235.94	0.10
1338.00	10.52	242.95	1329.66	-55.21	-69.36	-104.46	125.38	236.42	1.69
1521.00	10.78	240.54	1509.51	-67.22	-85.37	-134.23	159.07	237.54	0.28
1704.00	11.34	239.66	1689.11	-80.62	-102.86	-164.65	194.14	238.00	0.32
1887.00	11.75	238.47	1868.41	-95.21	-121.70	-196.06	230.76	238.17	0.26
2070.00	11.23	243.44	2047.74	-108.64	-139.41	-227.89	267.15	238.54	0.61
2252.00	9.58	243.25	2226.74	-119.44	-154.15	-257.26	299.91	239.07	0.91



MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
2435.00	9.31	250.31	2407.27	-127.61	-165.99	-284.80	329.64	239.76	0.65
2618.00	10.80	247.60	2587.45	-135.17	-177.52	-314.60	361.23	240.57	0.85
2802.00	8.55	242.88	2768.83	-144.21	-190.32	-342.72	392.02	240.96	1.30
2992.00	10.34	239.95	2956.24	-155.51	-205.30	-370.05	423.18	240.98	0.98
3181.00	9.96	244.77	3142.29	-167.02	-220.76	-399.51	456.45	241.08	0.49
3371.00	8.97	242.56	3329.70	-177.09	-234.58	-427.52	487.65	241.25	0.55
3560.00	9.34	235.85	3516.30	-189.01	-249.98	-453.28	517.64	241.12	0.60
3750.00	8.90	237.98	3703.90	-202.04	-266.42	-478.49	547.66	240.89	0.29
3939.00	10.05	245.15	3890.33	-213.04	-281.10	-505.86	578.72	240.94	0.87
4128.00	11.26	237.47	4076.07	-225.79	-297.96	-536.39	613.59	240.95	0.98
4317.00	7.00	227.23	4262.65	-240.28	-315.71	-560.42	643.23	240.61	2.40
4507.00	6.10	230.64	4451.40	-252.31	-329.98	-576.73	664.46	240.22	0.52
4698.00	2.38	250.78	4641.86	-258.48	-337.73	-588.32	678.37	240.14	2.07
4888.00	1.38	331.40	4831.78	-257.16	-337.02	-593.13	682.20	240.39	1.34
5078.00	1.85	0.48	5021.71	-252.00	-331.96	-594.20	680.64	240.81	0.49
5269.00	0.59	262.75	5212.67	-248.94	-329.00	-595.16	680.04	241.07	1.06
5459.00	0.92	348.53	5402.66	-247.43	-327.64	-596.43	680.50	241.22	0.55
5649.00	2.12	1.94	5592.59	-242.44	-322.63	-596.62	678.26	241.60	0.66

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
5840.00	0.48	21.72	5783.53	-238.25	-318.35	-596.20	675.87	241.90	0.88
6030.00	0.23	351.11	5973.53	-237.18	-317.24	-595.96	675.14	241.97	0.16
6221.00	0.61	269.86	6164.53	-236.68	-316.87	-597.03	675.91	242.04	0.32
6412.00	0.67	311.31	6355.51	-235.71	-316.14	-598.88	677.21	242.17	0.24
6602.00	0.67	12.42	6545.50	-233.84	-314.33	-599.48	676.89	242.33	0.36
6697.00	5.18	1.11	6640.36	-229.08	-309.50	-599.28	674.48	242.69	4.76
6793.00	11.75	353.56	6735.26	-215.00	-295.44	-600.29	669.06	243.80	6.93
6888.00	21.16	351.97	6826.27	-188.12	-268.78	-603.78	660.91	246.00	9.92
6983.00	29.16	352.81	6912.18	-147.75	-228.77	-609.09	650.63	249.41	8.43
7078.00	35.92	353.47	6992.22	-96.68	-178.06	-615.16	640.41	253.86	7.13
7173.00	45.61	353.81	7064.08	-34.73	-116.48	-622.00	632.81	259.39	10.20
7268.00	58.31	354.74	7122.50	39.90	-42.18	-629.39	630.80	266.17	13.38
7363.00	72.50	355.84	7161.94	125.95	43.69	-636.42	637.92	273.93	14.98
7428.00	81.34	355.42	7176.64	189.11	106.76	-641.25	650.08	279.45	13.61
7546.00	89.97	358.00	7185.58	306.34	224.11	-647.98	685.64	289.08	7.63
7638.00	91.48	359.43	7184.42	397.79	316.07	-650.04	722.81	295.93	2.26
7729.00	91.92	1.58	7181.72	487.87	407.02	-649.23	766.27	302.08	2.40
7824.00	92.18	1.58	7178.32	581.63	501.92	-646.61	818.56	307.82	0.28

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
7918.00	90.20	1.92	7176.37	674.39	595.85	-643.74	877.18	312.79	2.14
8013.00	89.93	1.01	7176.26	768.24	690.82	-641.32	942.62	317.13	1.00
8108.00	89.56	1.01	7176.67	862.20	785.81	-639.65	1013.23	320.85	0.39
8203.00	90.20	2.36	7176.87	955.99	880.76	-636.85	1086.89	324.13	1.57
8297.00	89.26	1.05	7177.31	1048.79	974.72	-634.05	1162.80	326.96	1.71
8392.00	89.56	1.85	7178.28	1142.64	1069.68	-631.64	1242.25	329.44	0.90
8487.00	91.18	2.51	7177.67	1236.29	1164.61	-628.03	1323.15	331.66	1.83
8582.00	91.24	2.17	7175.67	1329.88	1259.51	-624.15	1405.68	333.64	0.36
8677.00	89.73	0.90	7174.86	1423.70	1354.46	-621.61	1490.29	335.35	2.08
8771.00	90.50	0.69	7174.66	1516.73	1448.45	-620.30	1575.69	336.82	0.85
8866.00	91.34	359.98	7173.13	1610.84	1543.44	-619.75	1663.22	338.12	1.16
8961.00	91.68	0.25	7170.63	1704.98	1638.40	-619.56	1751.63	339.29	0.46
9055.00	90.34	359.18	7168.97	1798.22	1732.39	-620.02	1840.00	340.31	1.83
9150.00	90.60	359.34	7168.19	1892.57	1827.37	-621.25	1930.09	341.22	0.33
9244.00	90.50	359.54	7167.28	1985.88	1921.37	-622.16	2019.59	342.06	0.24
9339.00	89.87	0.69	7166.98	2080.05	2016.36	-621.97	2110.11	342.86	1.38
9434.00	90.07	0.62	7167.03	2174.10	2111.36	-620.88	2200.75	343.61	0.22
9529.00	88.76	0.24	7168.01	2268.19	2206.35	-620.16	2291.85	344.30	1.44

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
9624.00	88.42	359.35	7170.35	2362.40	2301.32	-620.50	2383.50	344.91	1.01
9719.00	90.57	1.10	7171.18	2456.53	2396.30	-620.13	2475.24	345.49	2.92
9815.00	90.81	0.54	7170.03	2551.53	2492.28	-618.76	2567.95	346.06	0.64
9910.00	90.37	359.51	7169.05	2645.71	2587.28	-618.72	2660.23	346.55	1.17
10005.00	90.57	1.37	7168.27	2739.80	2682.27	-617.99	2752.54	347.03	1.96
10100.00	89.90	0.18	7167.88	2833.82	2777.26	-616.71	2844.90	347.48	1.43
10195.00	90.44	0.02	7167.61	2927.99	2872.26	-616.54	2937.68	347.89	0.59
10290.00	89.50	1.20	7167.66	3022.05	2967.25	-615.53	3030.42	348.28	1.59
10385.00	89.56	2.61	7168.44	3115.78	3062.19	-612.37	3122.82	348.69	1.48
10481.00	90.47	2.01	7168.41	3210.38	3158.11	-608.50	3216.20	349.09	1.13
10576.00	89.46	2.66	7168.47	3304.00	3253.03	-604.63	3308.74	349.47	1.26
10671.00	88.72	1.63	7169.97	3397.65	3347.95	-601.07	3401.48	349.82	1.33
10766.00	88.46	1.07	7172.31	3491.50	3442.89	-598.83	3494.58	350.13	0.65
10862.00	89.03	2.66	7174.42	3586.20	3538.82	-595.70	3588.60	350.44	1.76
10957.00	90.64	2.73	7174.69	3679.71	3633.71	-591.23	3681.49	350.76	1.70
11052.00	90.30	1.94	7173.91	3773.32	3728.62	-587.36	3774.60	351.05	0.90
11148.00	90.27	1.61	7173.44	3868.08	3824.58	-584.38	3868.96	351.31	0.35
11243.00	90.37	1.23	7172.91	3961.94	3919.55	-582.03	3962.52	351.55	0.42

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
11338.00	89.03	1.17	7173.41	4055.85	4014.52	-580.04	4056.21	351.78	1.41
11434.00	89.06	0.51	7175.01	4150.83	4110.50	-578.63	4151.02	351.99	0.69
11529.00	88.82	0.36	7176.77	4244.91	4205.48	-577.90	4245.00	352.18	0.29
11624.00	89.56	0.45	7178.10	4339.01	4300.47	-577.24	4339.03	352.36	0.78
11717.00	89.70	359.94	7178.70	4431.18	4393.46	-576.92	4431.18	352.52	0.56

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft

5" = 100' FEET TVD