



GAMMA RAY

5" = 100' MD

COMPANY : ANADARKO E&P ONSHORE LLC  
WELL : YELLOWHAMMER 34N-17HZ  
FIELD : WATTENBERG  
COUNTY : WELD  
STATE : COLORADO  
COUNTRY : U.S.A.  
UWI : 05123454930000

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WELL LOCATION NAD83  
LAT:40.0626890° LONG:-105.0353620°  
N:14549563.16 ft E:1630522.56 ft

SEC:8 TWP:1N RANGE:68W

OTHER SERVICES

DIRECTIONAL  
ROP

DEPTH REF. : KB

REF. HEIGHT : 17.000 ft KB to Ground Level

GROUND LEVEL : 5063.000 ft G.L. to MEAN SEA LEVEL

## BOREHOLE RECORD

## DEVIATION RECORD

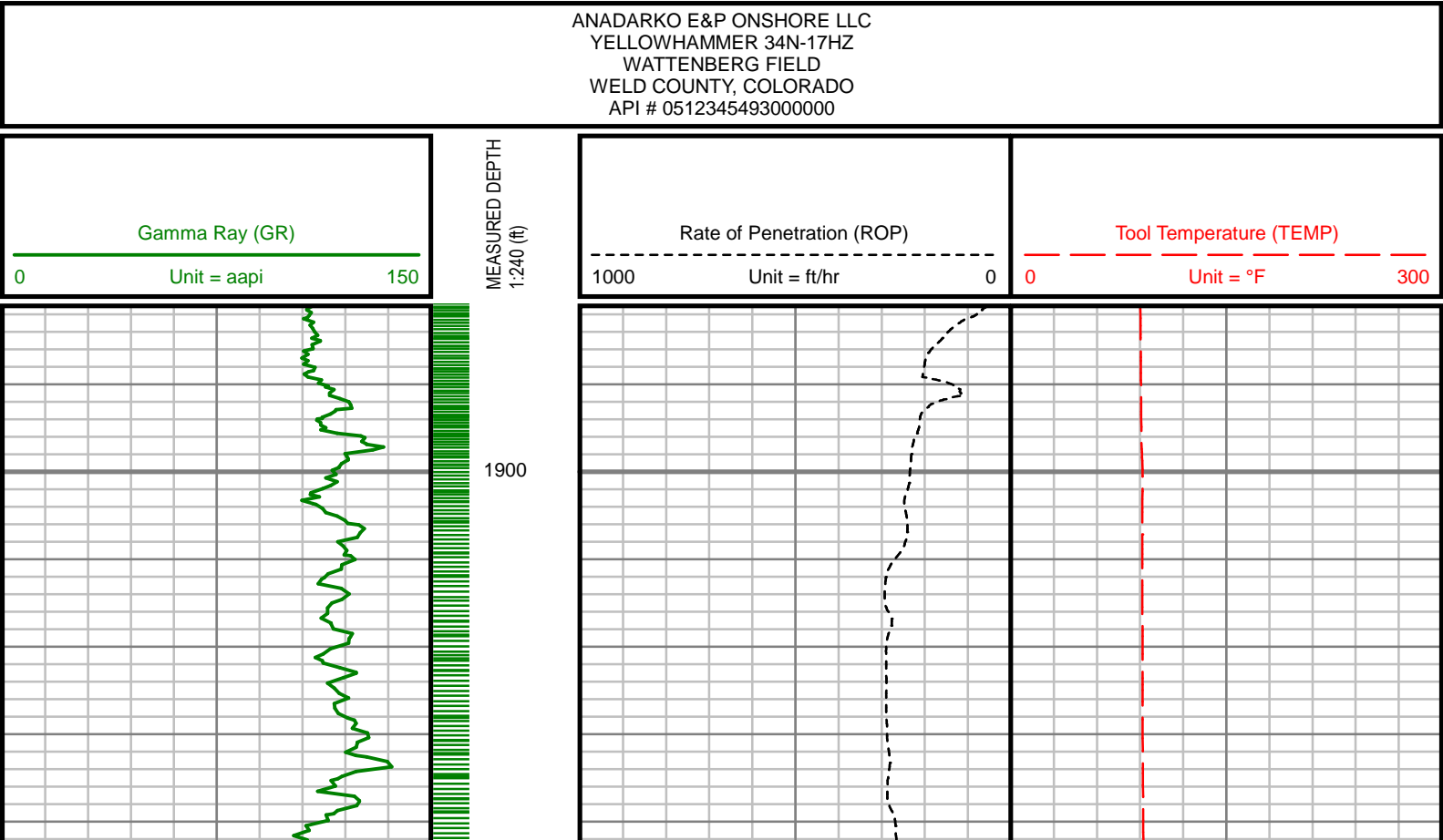
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
13	0	1881	0 - 1	0	444
8.5	1881	5831	1 - 14	444	1078
6.625	5831	13418	14 - 19	1078	3260
			19 - 0	3260	4112
			0 - 1	4112	6923
			1 - 87	6923	8370
CASING RECORD			87 - 92	8370	13418
CASING SIZE in	FROM ft	TO ft			
9.625	0	1868			
7.0	0	5821			
			DRILLING CO. : XTREME		
			RIG : 24		
			LWD UNIT NO. : KIT MUD PUDISTRICT : CASPER		
			SPUD DATE : 11/11/2017		
			LWD START DATE : 12/28/2017 DEPTH : 1881 ft		
			LWD END DATE : 01/01/2018 DEPTH : 13356 ft		
			TOTAL DEPTH : 13418 ft		

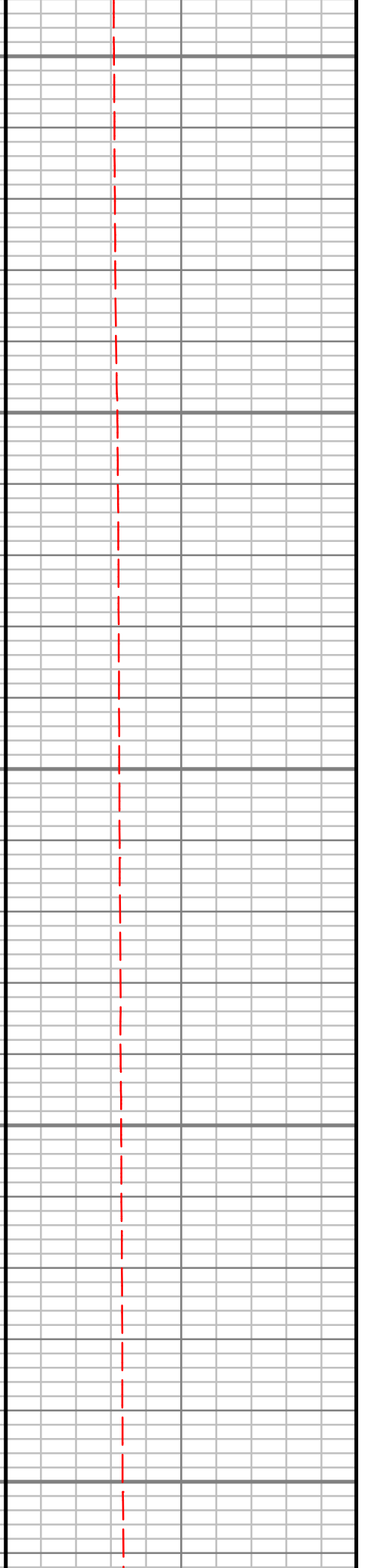
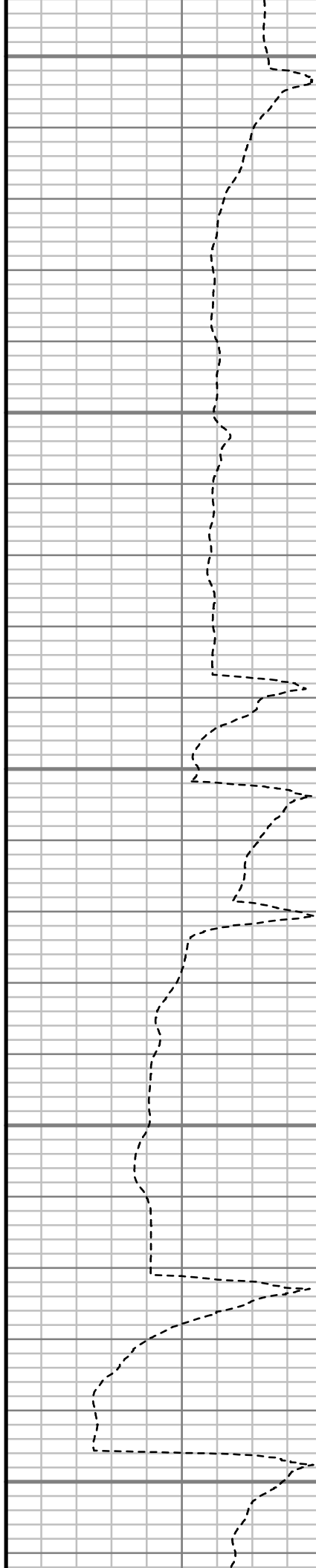
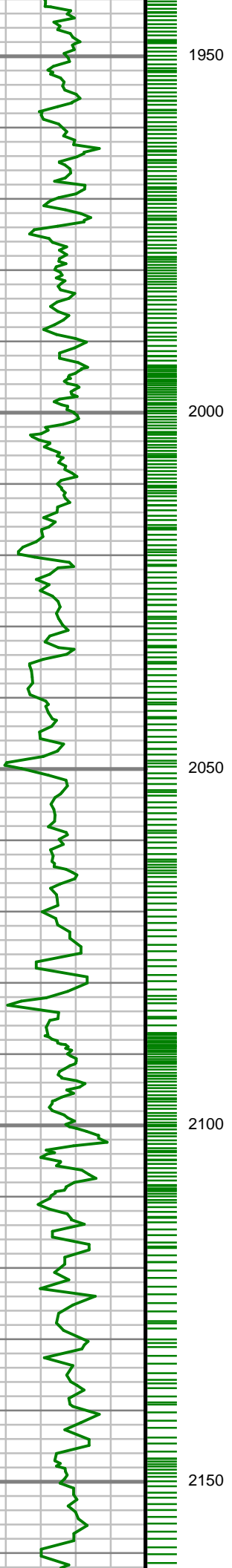
## Run Data

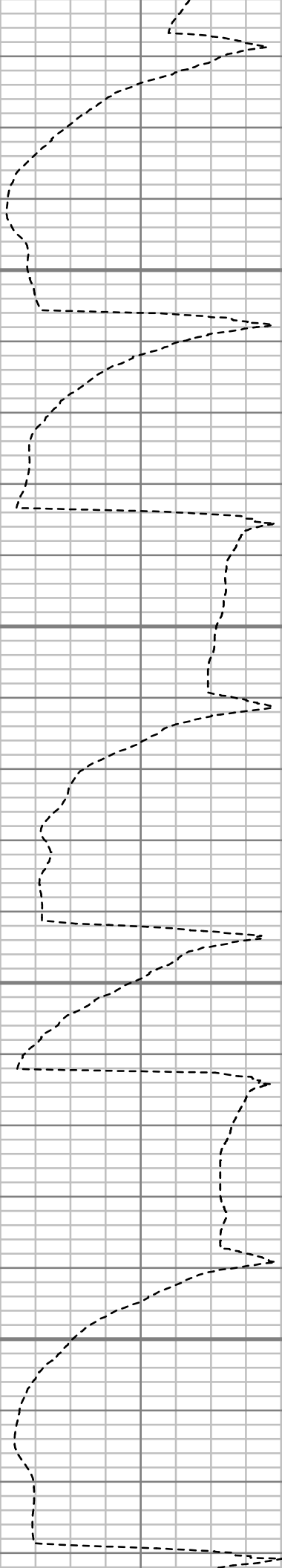
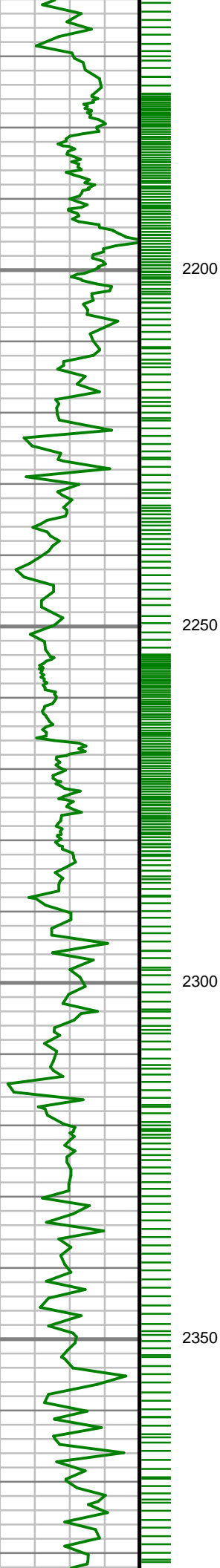
RUN NUMBER	1	2			
START DATE	12/28/2017	12/30/2017			
START TIME	12:00	05:00			
END DATE	12/29/2017	01/01/20018			
END TIME	09:30	21:00			
DEPTH IN (ft)	1881	5831			
DEPTH OUT (ft)	5831	13418			
LOG TOP (ft)	1881	5773			
LOG BOTTOM (ft)	5773	13356			
HOLE SIZE (in)	8.5	6.125			
MUD DATA @ (ft)	1880	8692			
MUD TYPE	OIL-BASED	OIL-BASED			
DENSITY (lb / gal)	8.8	8.95			
VISCOSITY (s / qt)	72	66			
pH	-	-			
FLUID LOSS (cm <sup>3</sup> / 30)	-	-			
SALINITY (mg/L)	32000	35000			
Rm (ohmm @ deg F)	-	-			
Rmf (ohmm @ deg F)	-	-			
MAX TEMP (deg F)	158	244			
Rm @ MAX TEMP (ohmm)	-	-			
LWD ENGINEER #1	J. WALSH	J. WALSH			
LWD ENGINEER #2	J. MEYERS	J. MEYERS			
LWD ENGINEER #3	-	M. BAILY			
LOG WITNESS #1	-	-			
LOG WITNESS #2	-	-			

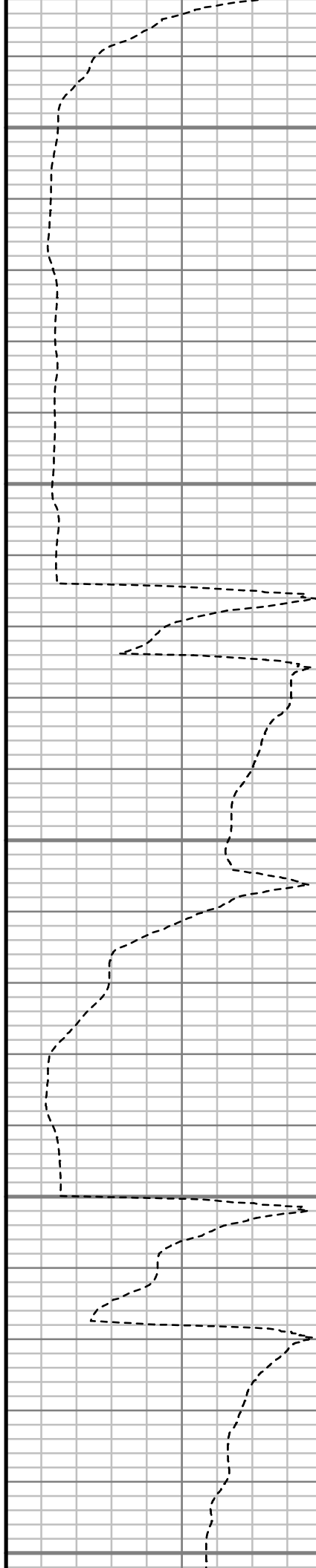
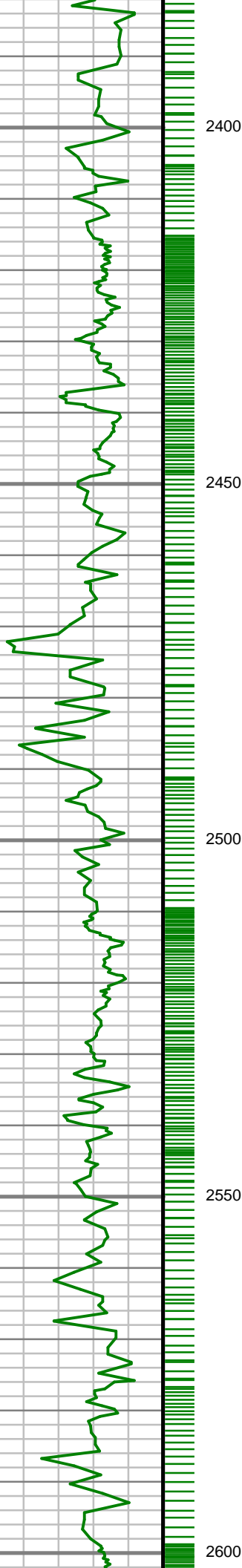
Remarks
ANADARKO E&P ONSHORE LLC AFE# 2124797
SCIENTIFIC DRILLING INTERNATIONAL JOB# OP.006893
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO TOOL TEMPERATURE CURVE
RUN #1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER=128-401 / CONTROLLER=738 / MWD EYE=1508 / GAMMA RAY=1420
BIT TO SENSOR OFFSETS: MWD EYE=54.81 FT. / GAMMA RAY=58.91 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER=78-281 / CONTROLLER=209 / MWD EYE=1445 / GAMMA RAY=1413
BIT TO SENSOR OFFSETS: MWD EYE=57.99 FT. / GAMMA RAY=62.09 FT.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
TEMP = TOOL TEMPERATURE

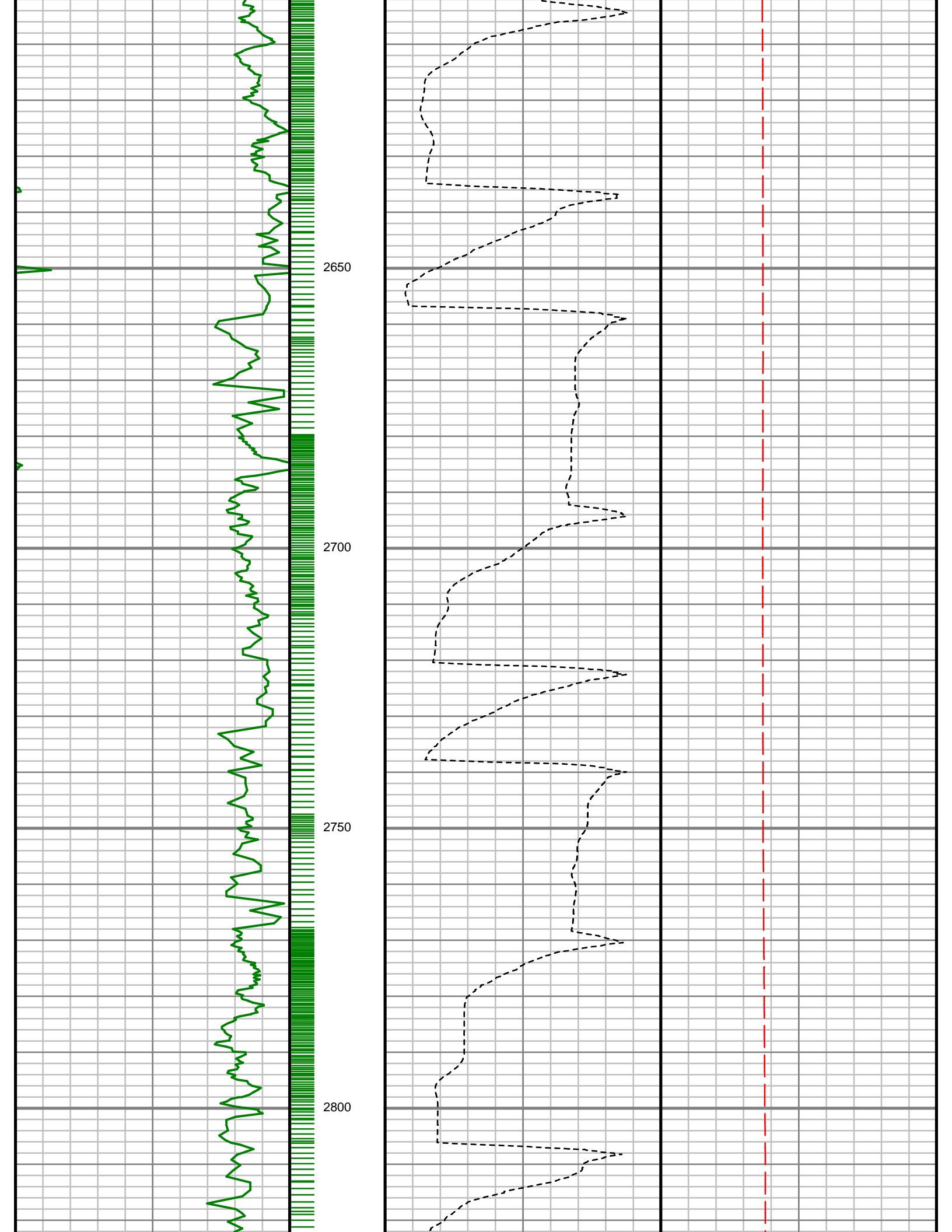
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

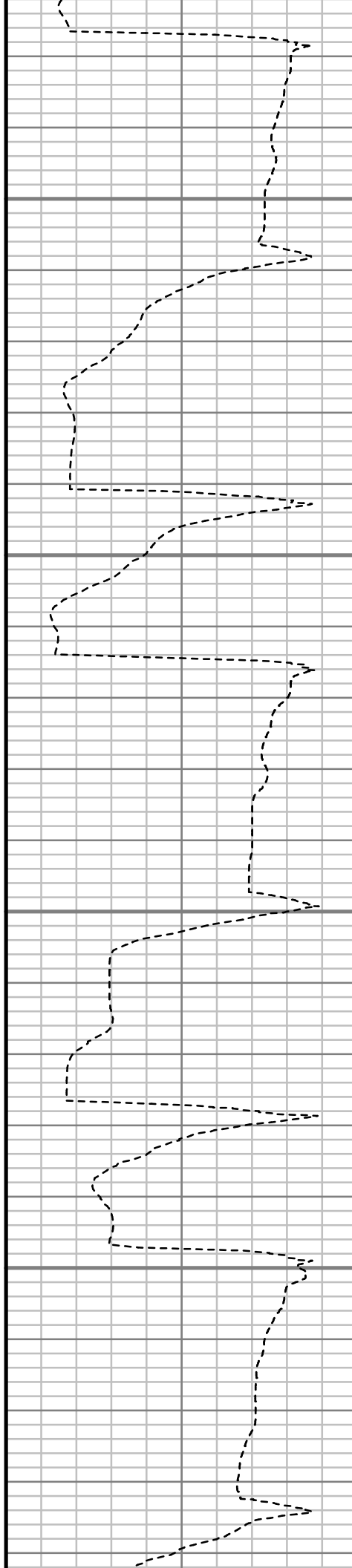
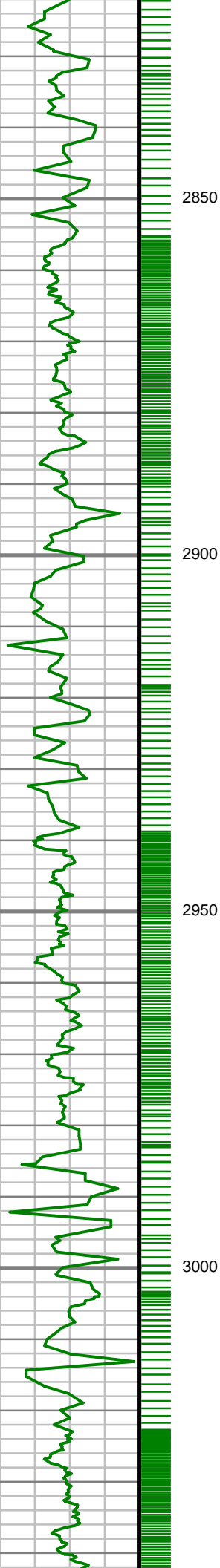


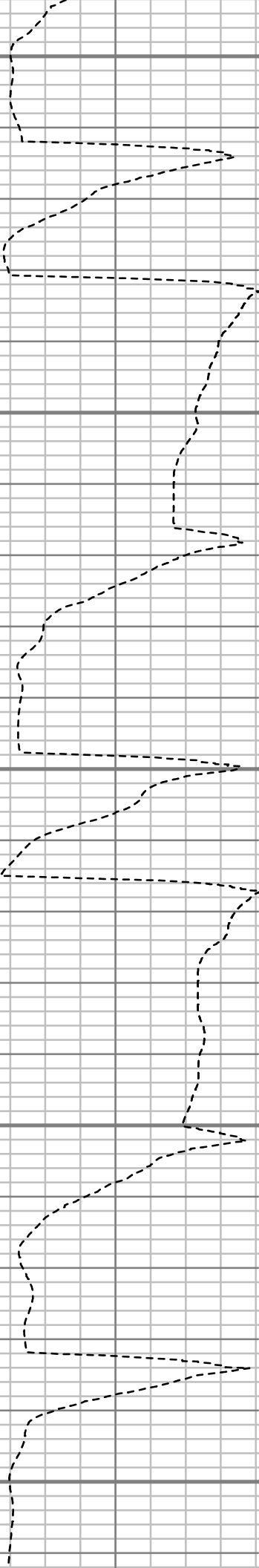
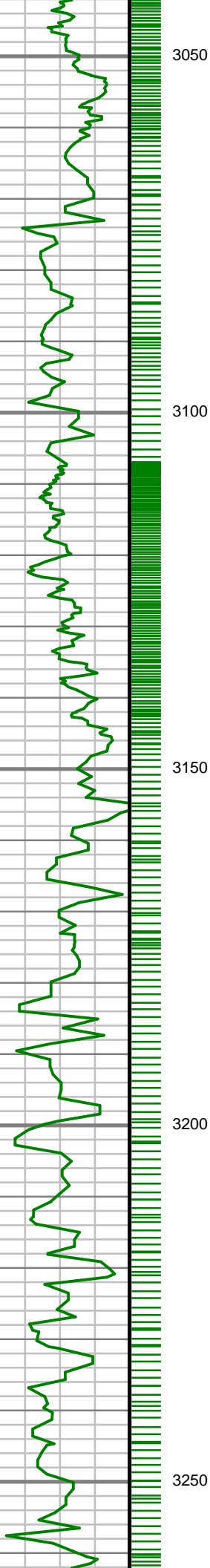




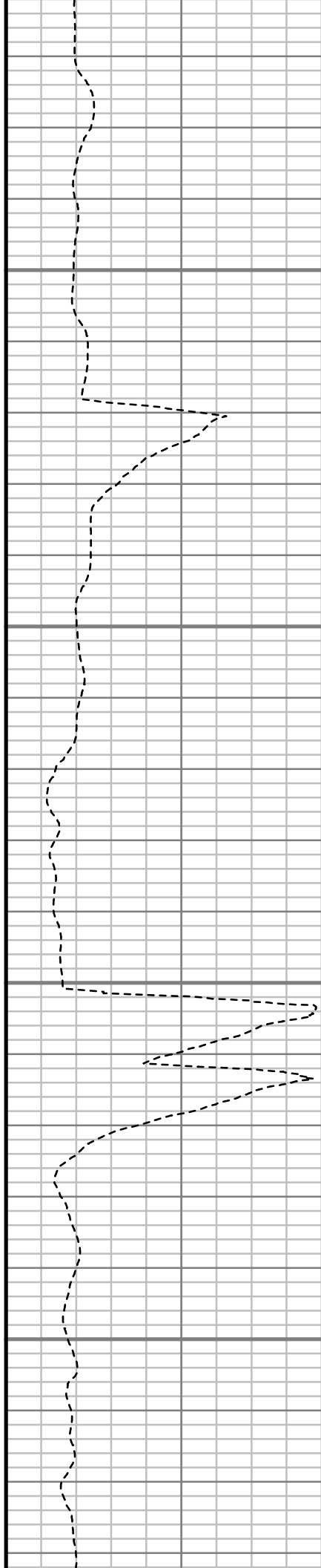
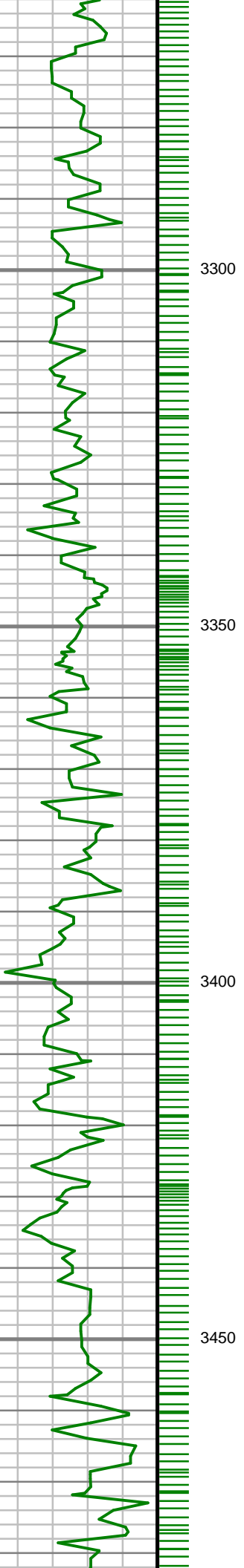


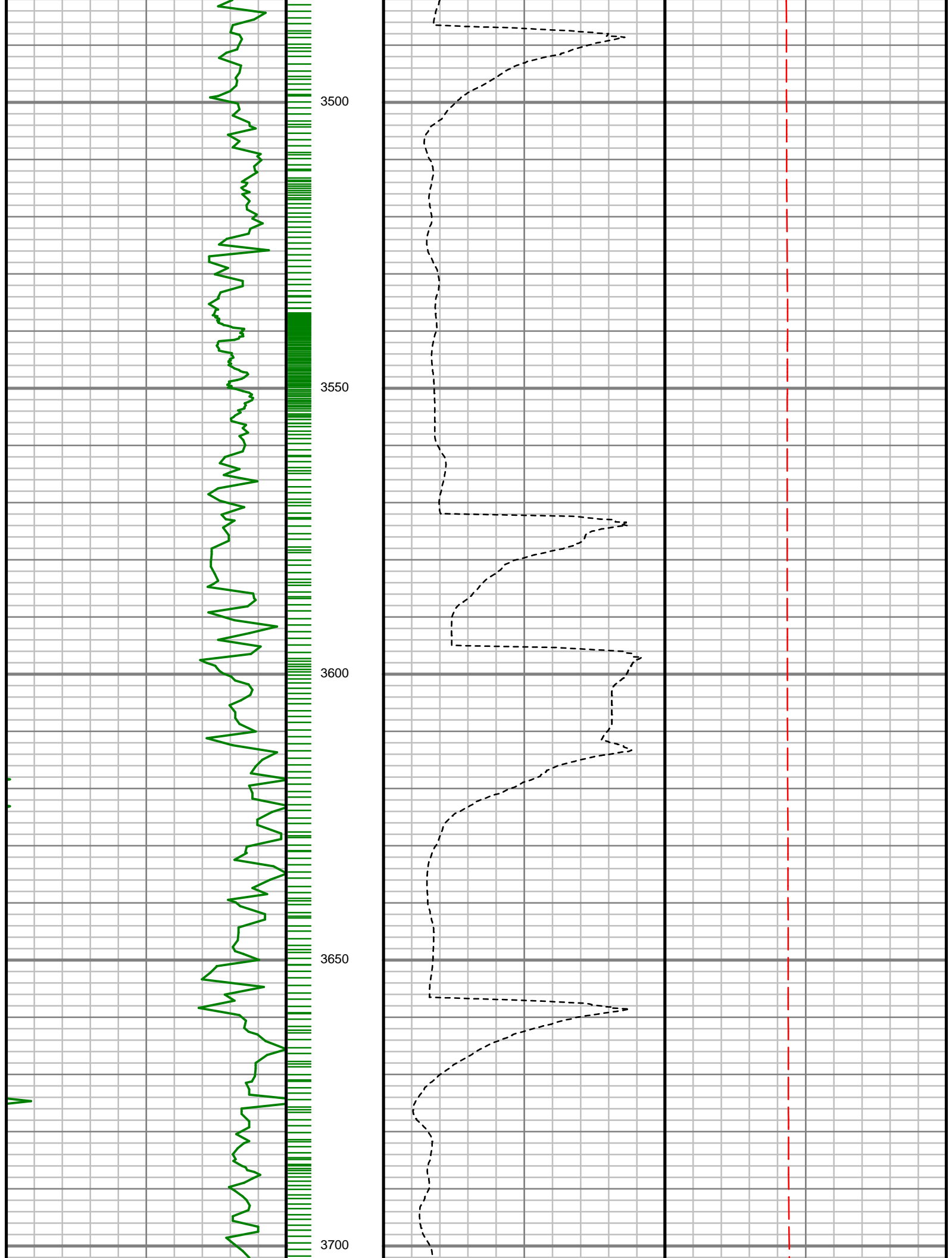


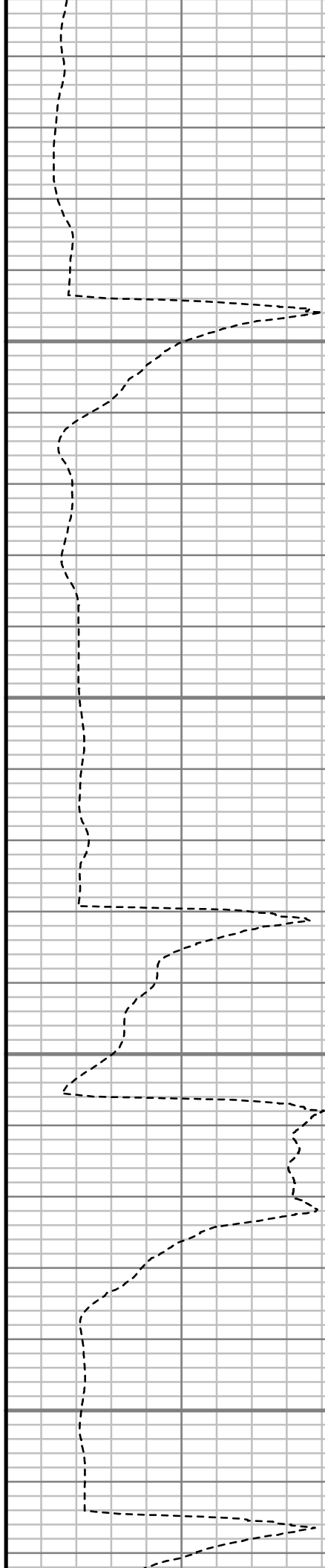
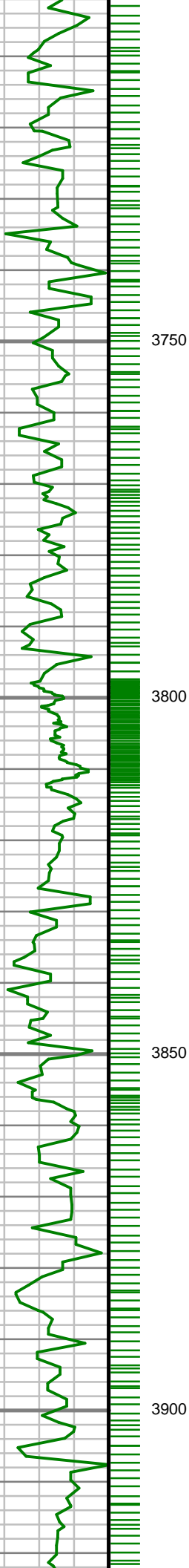


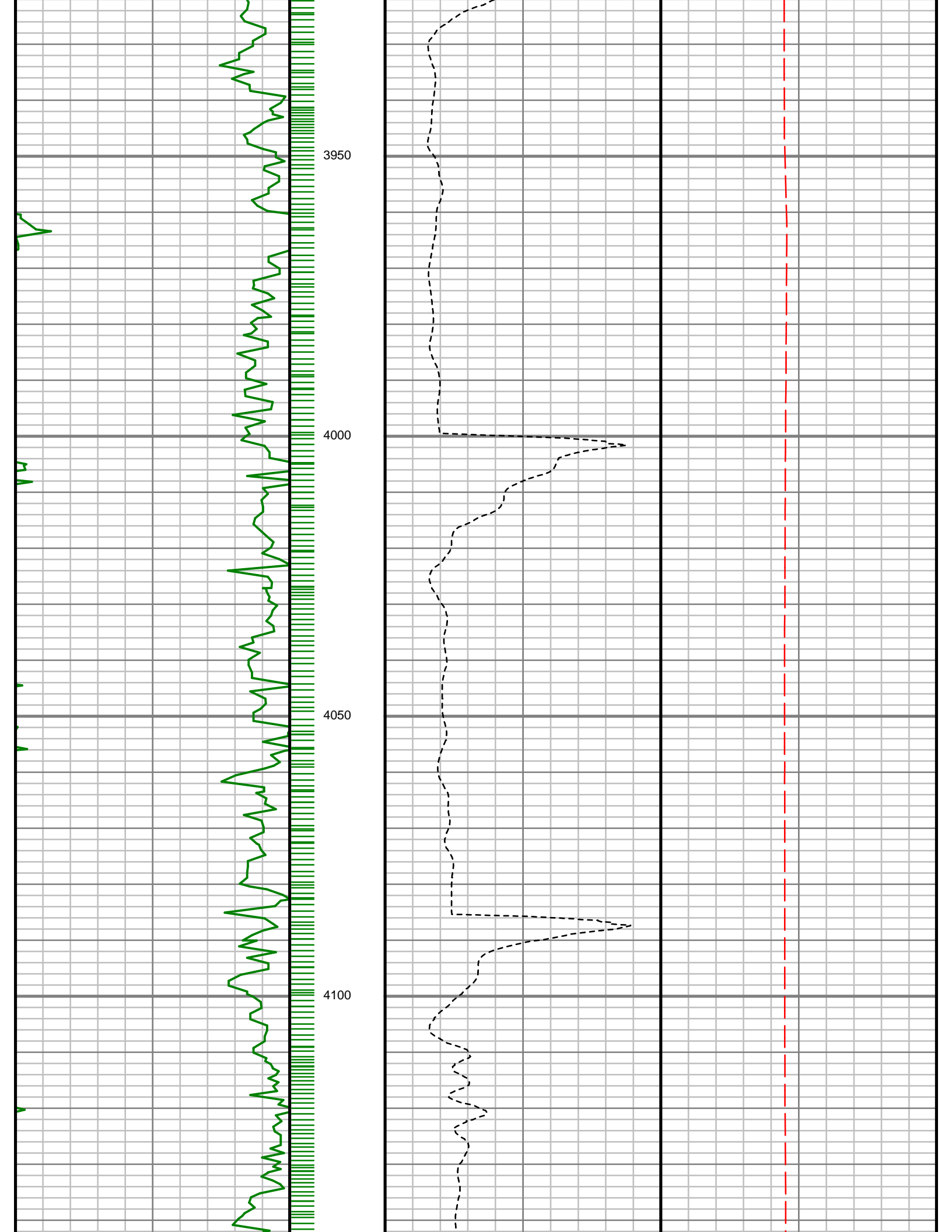


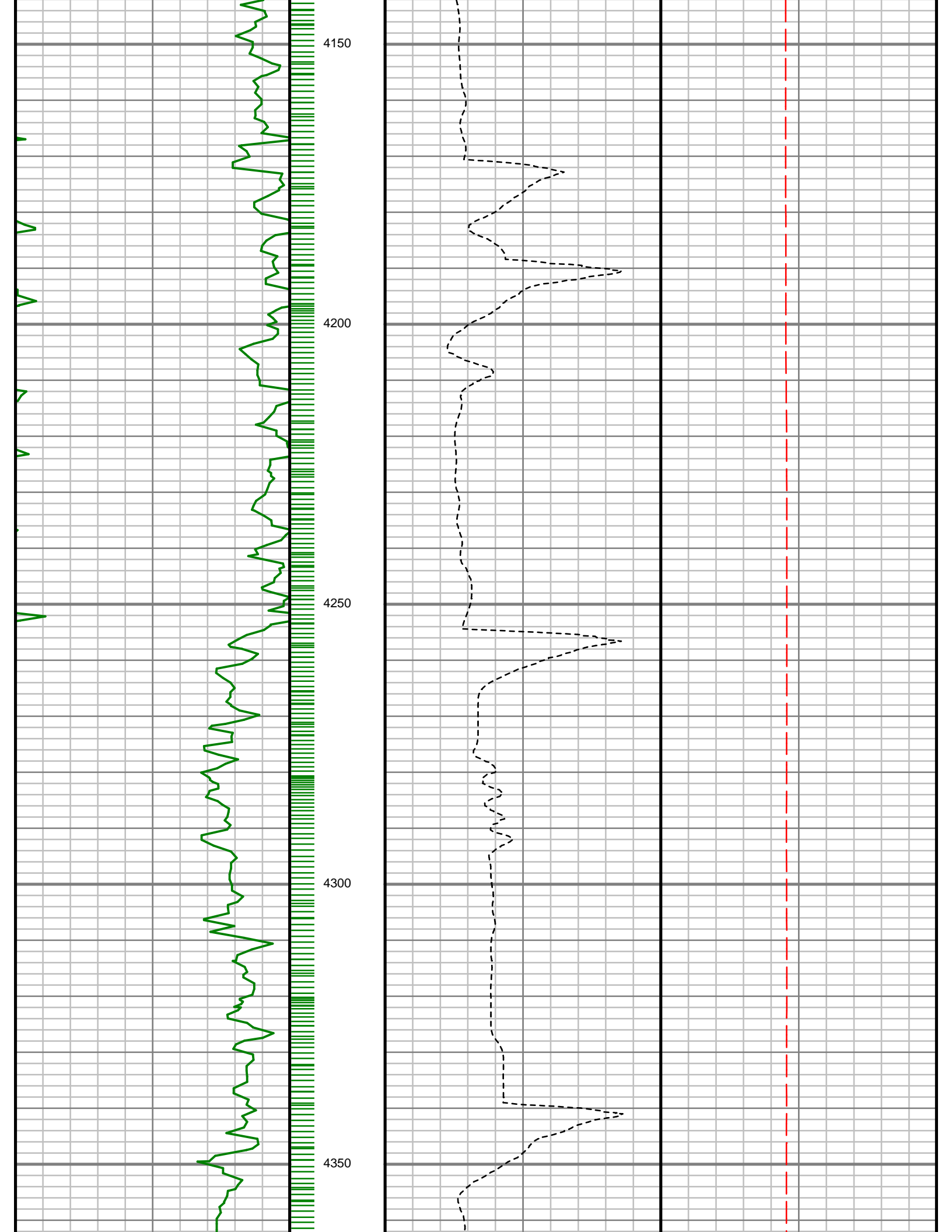


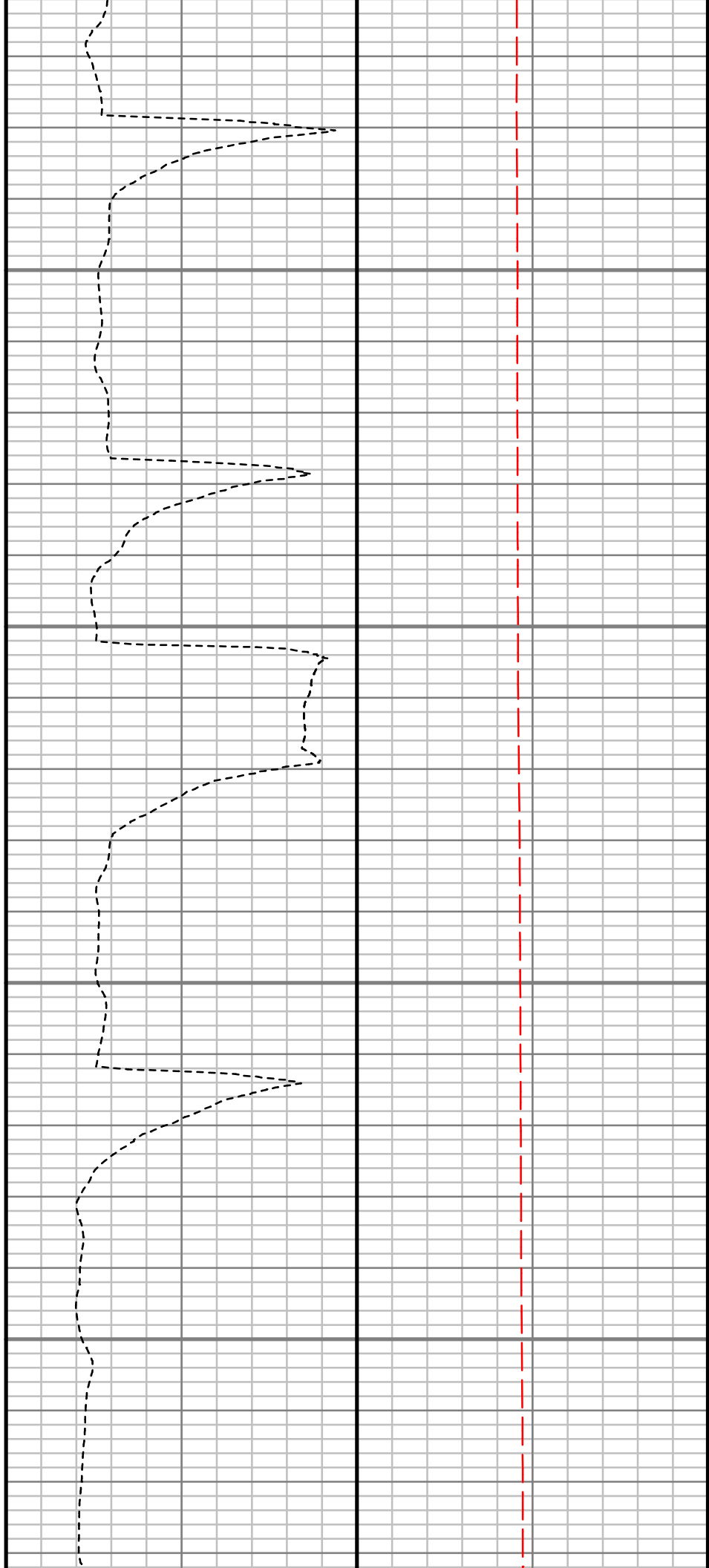
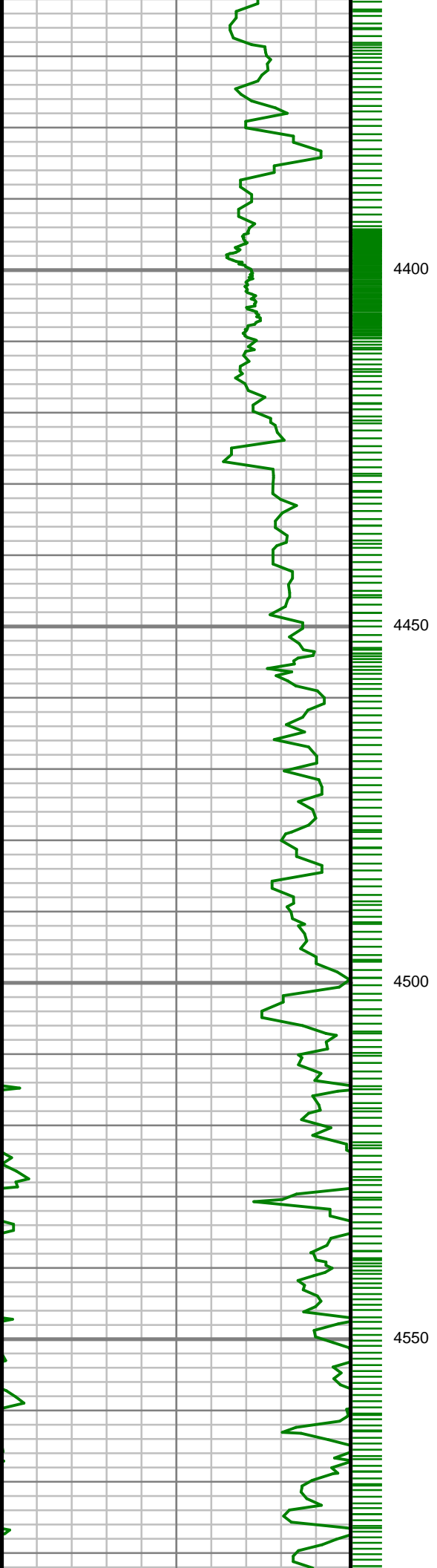


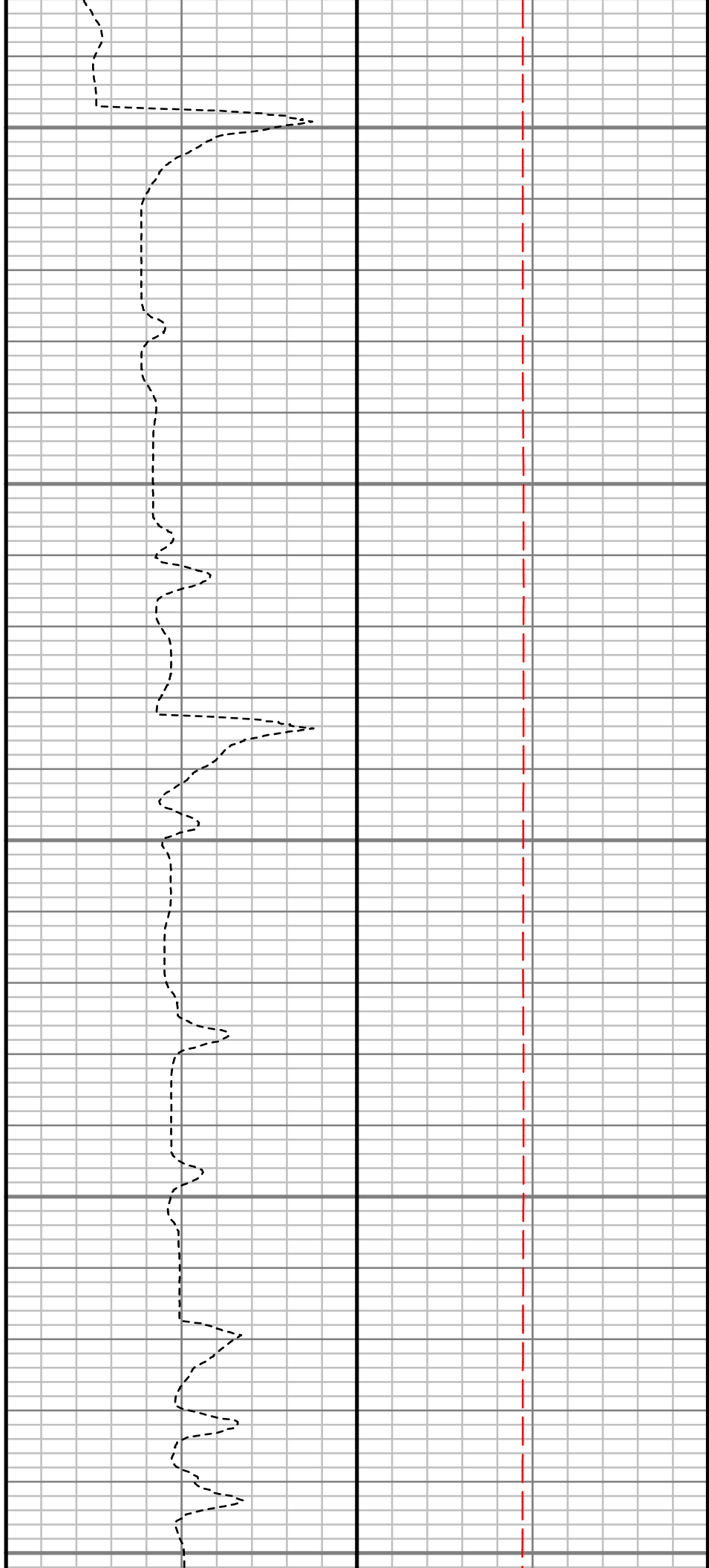
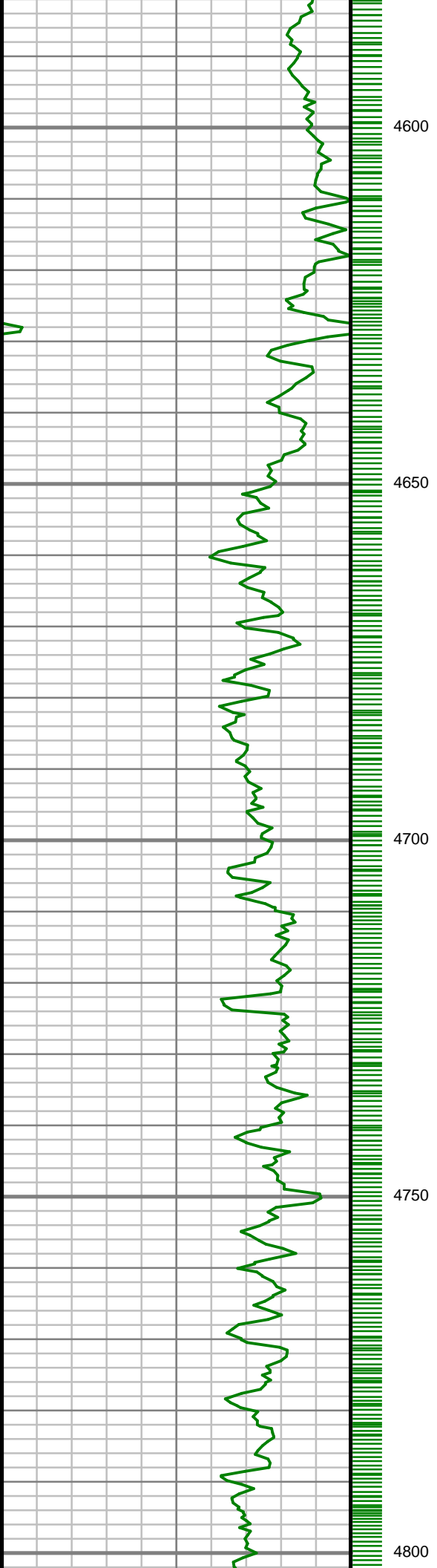


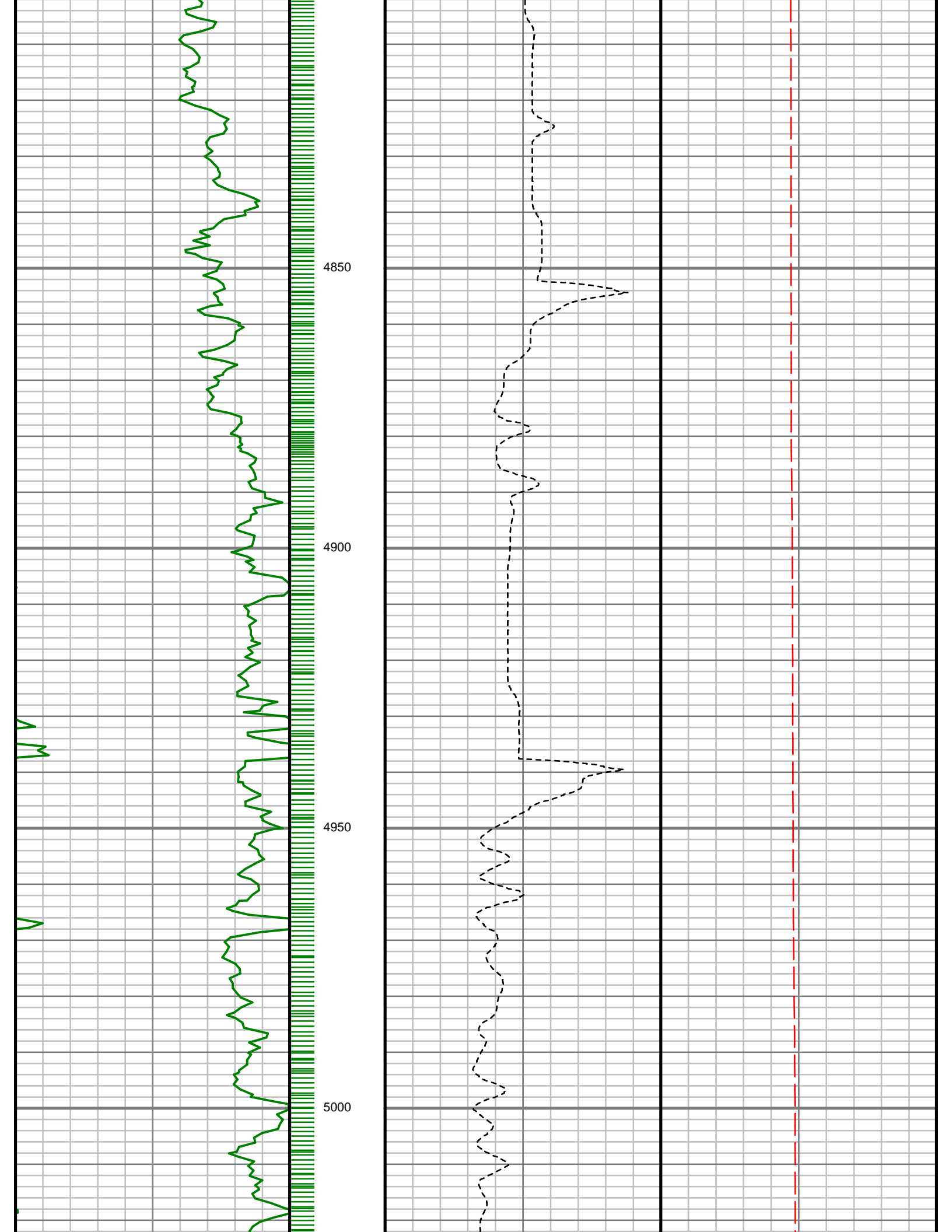




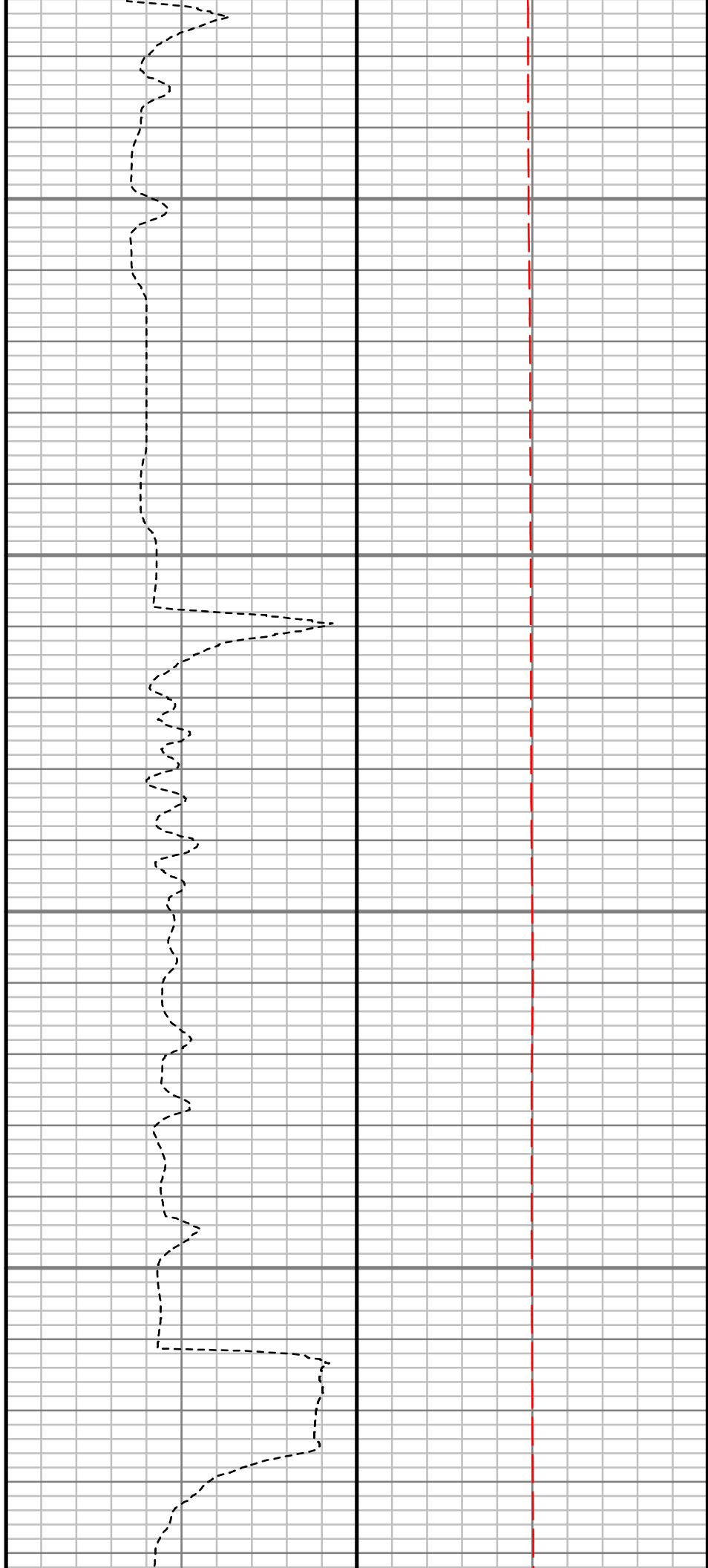
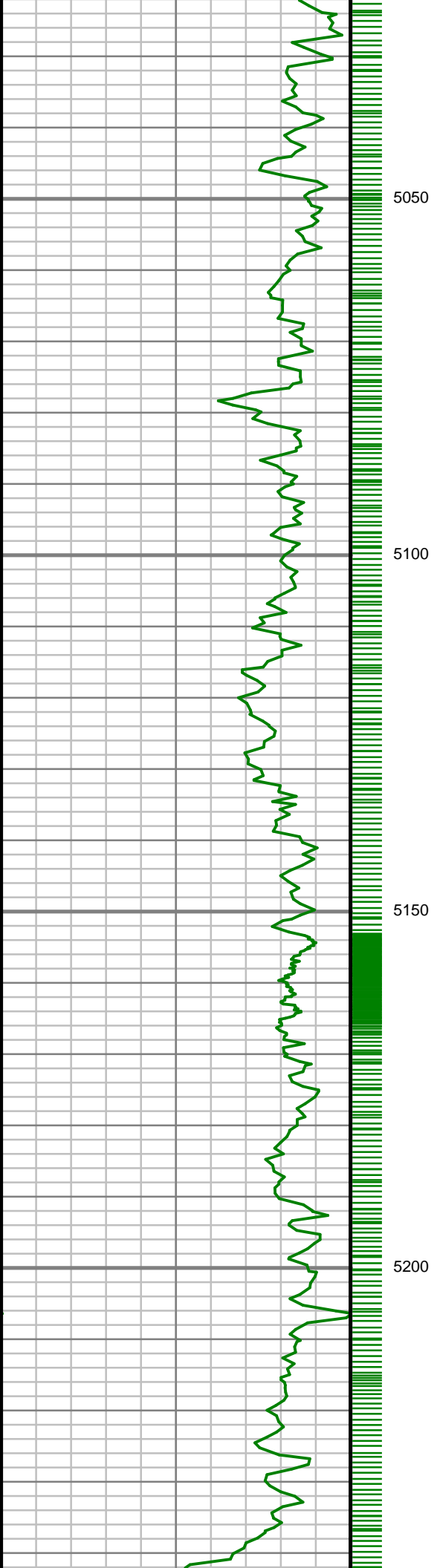


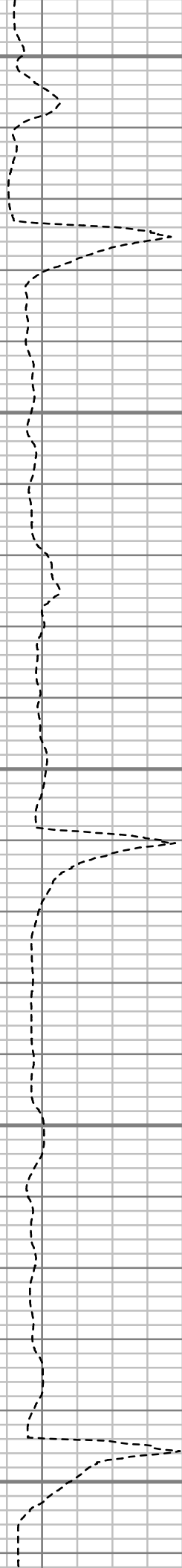
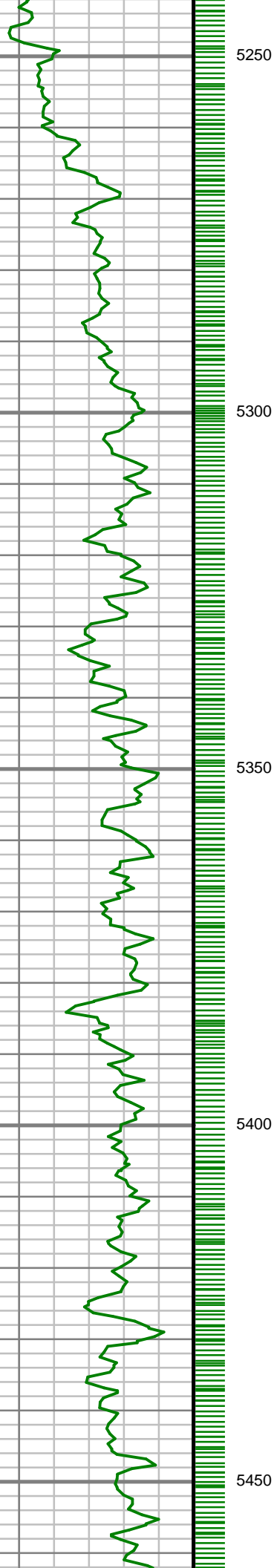


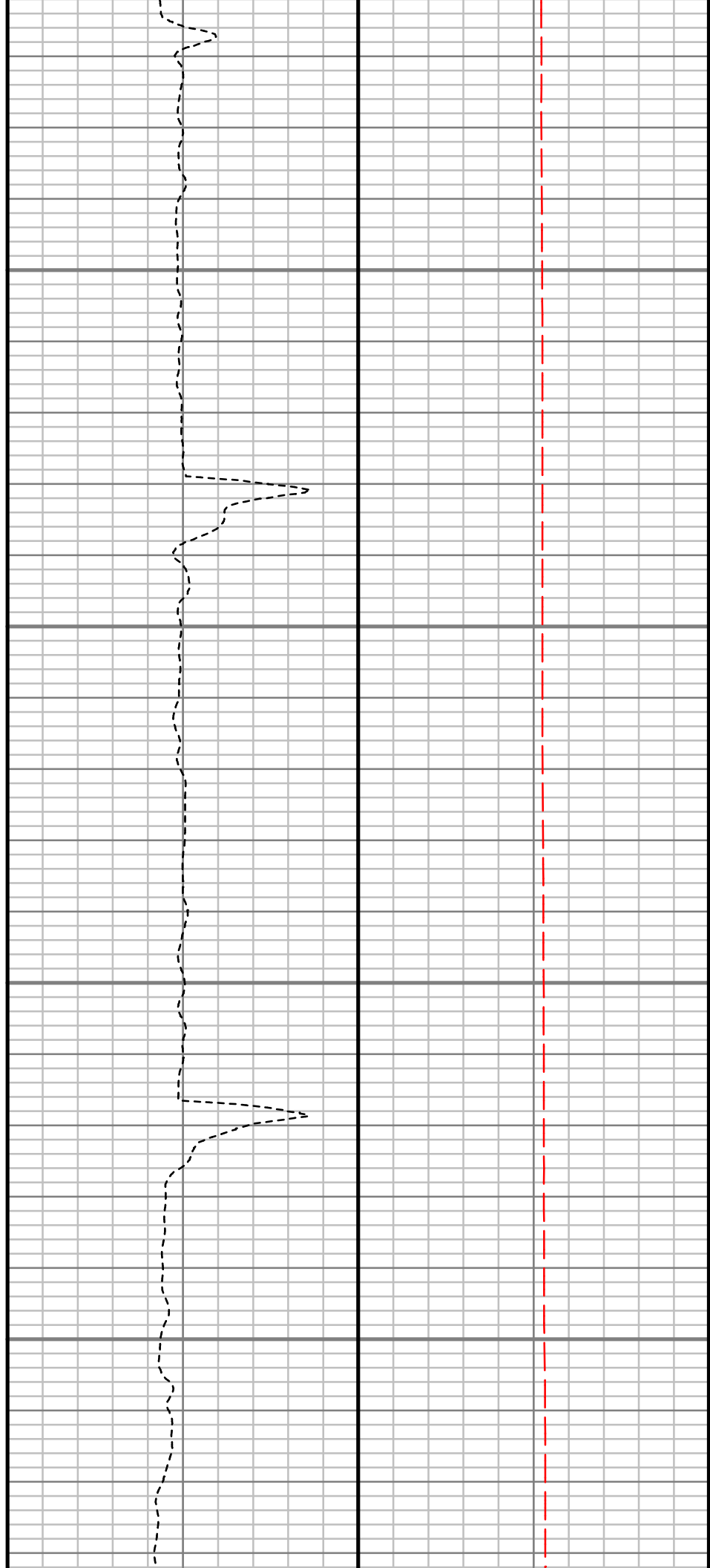
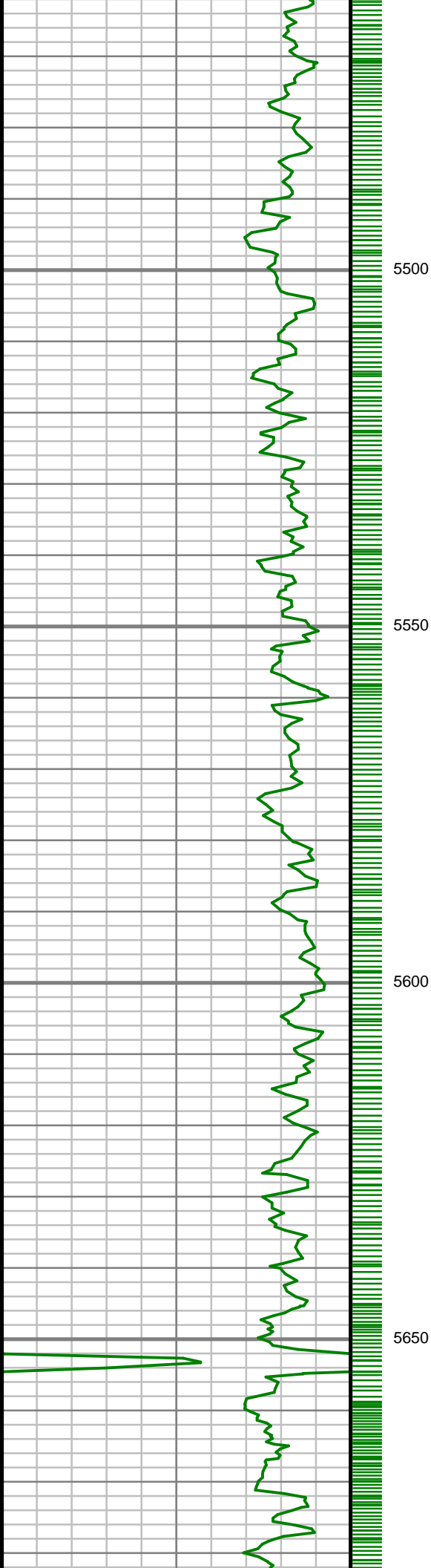


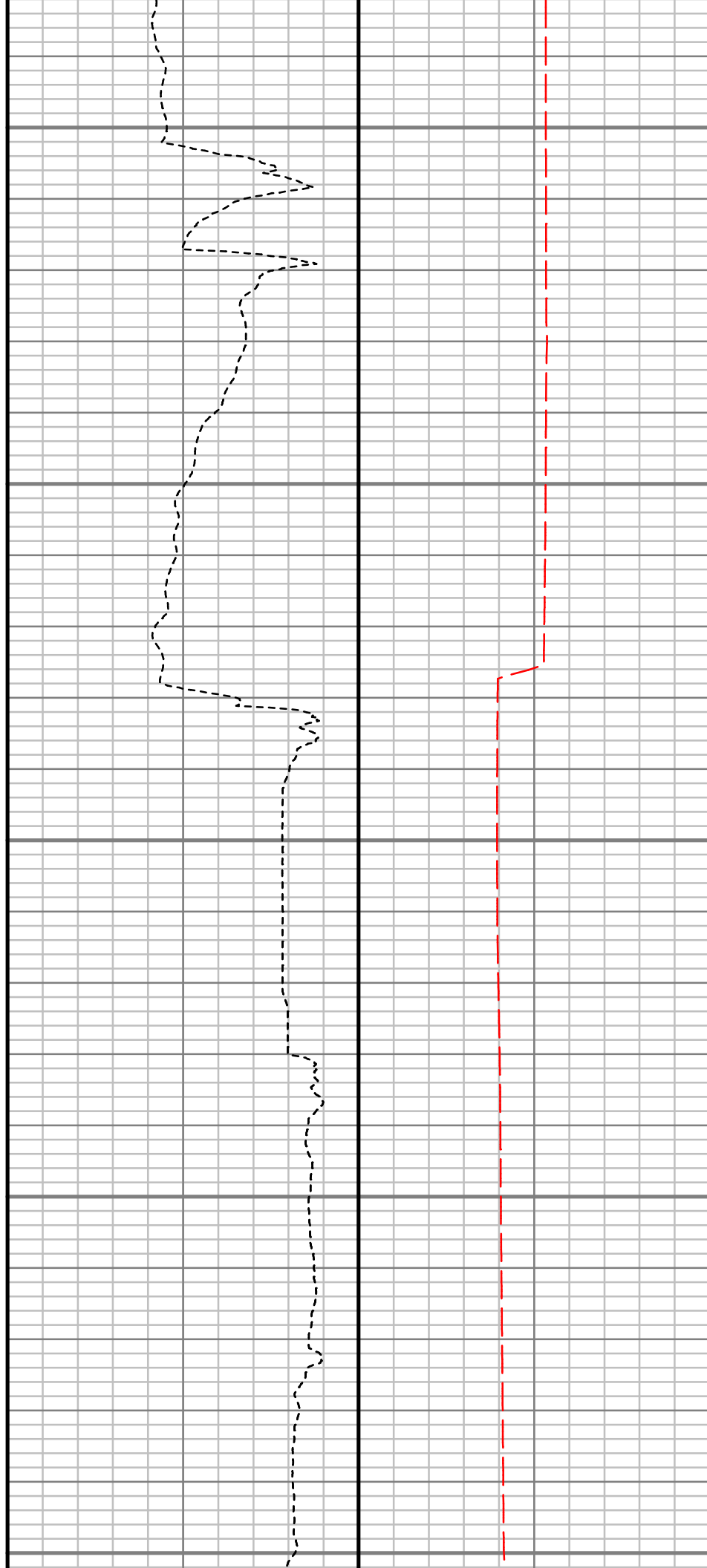
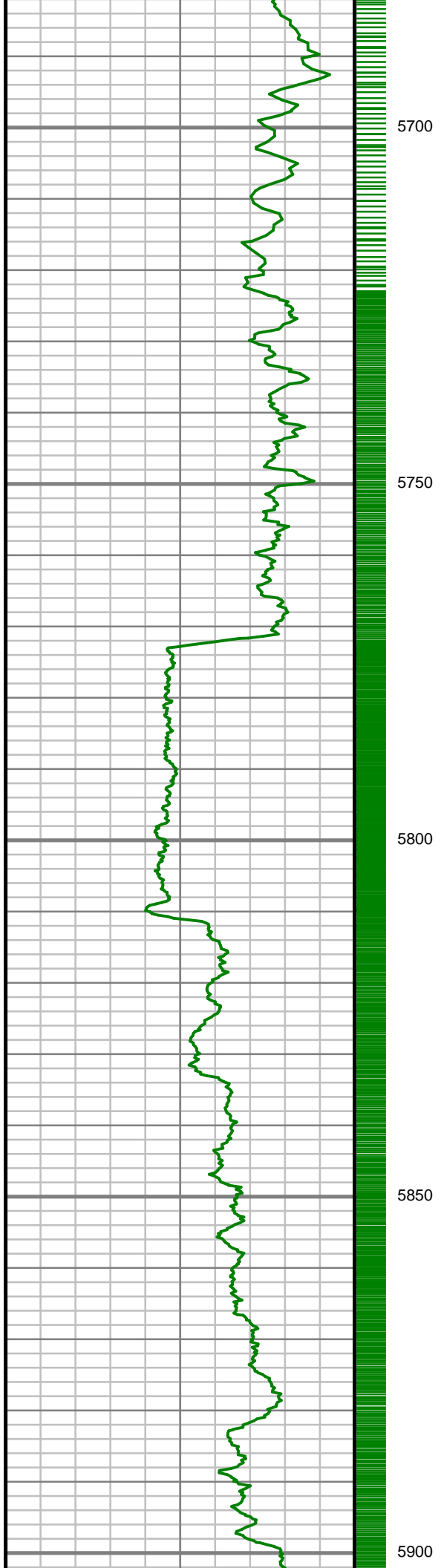


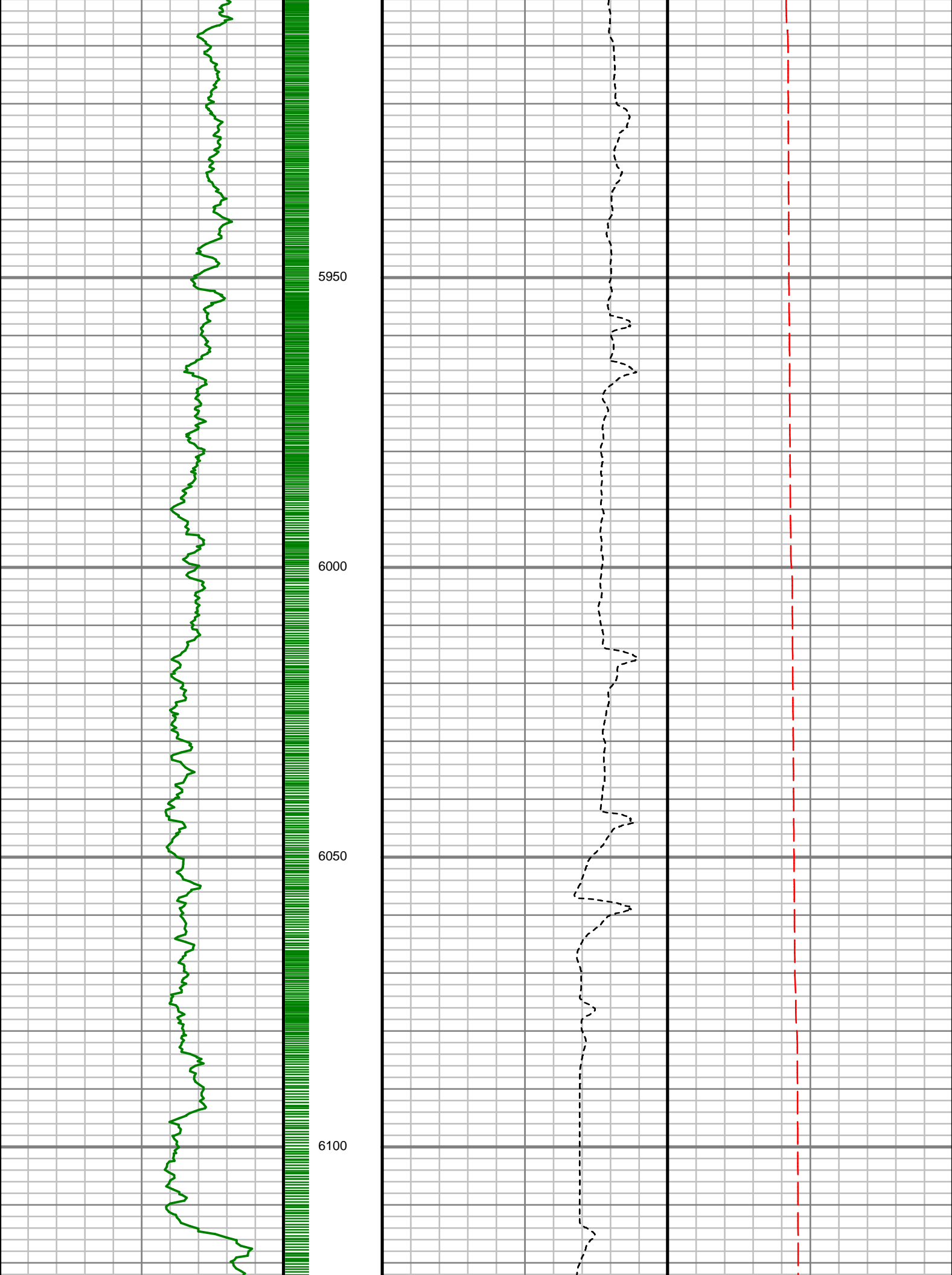


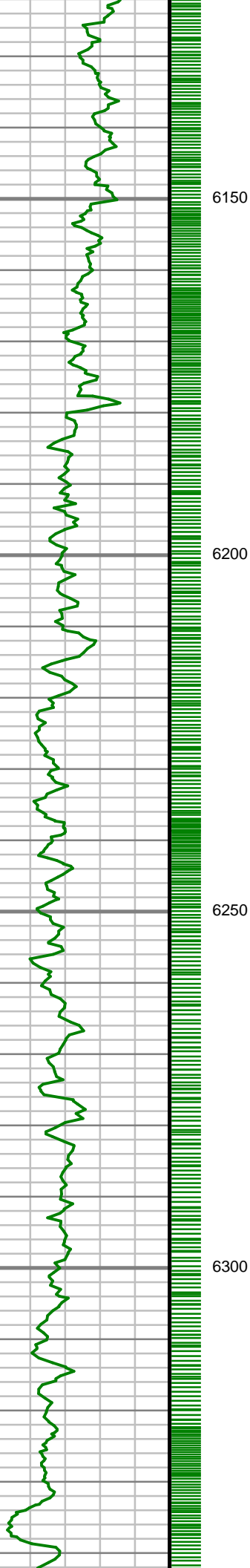










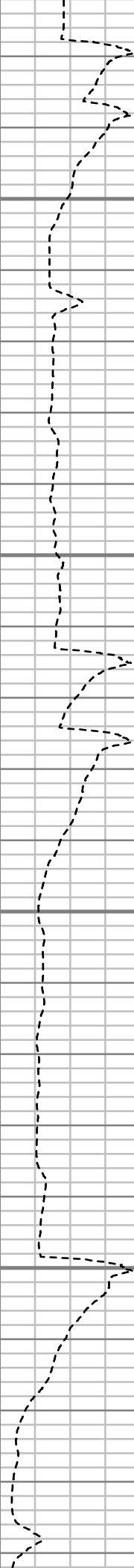


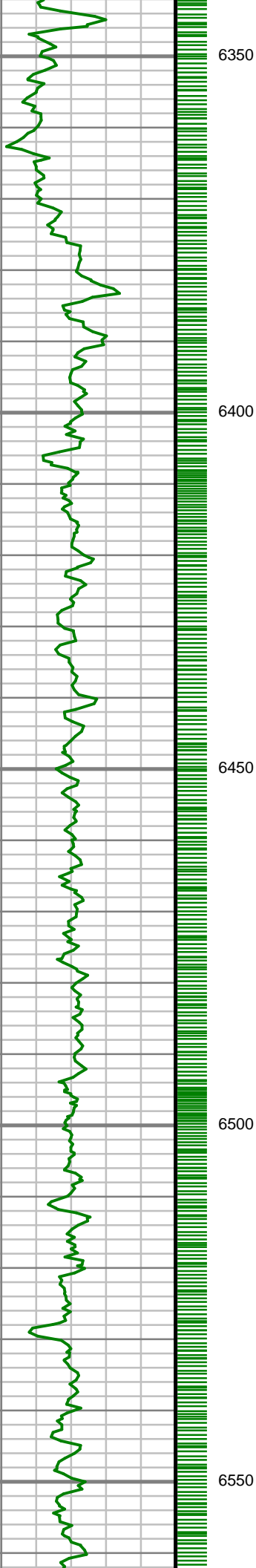
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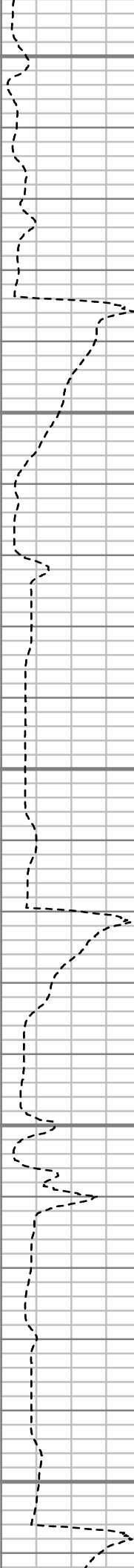
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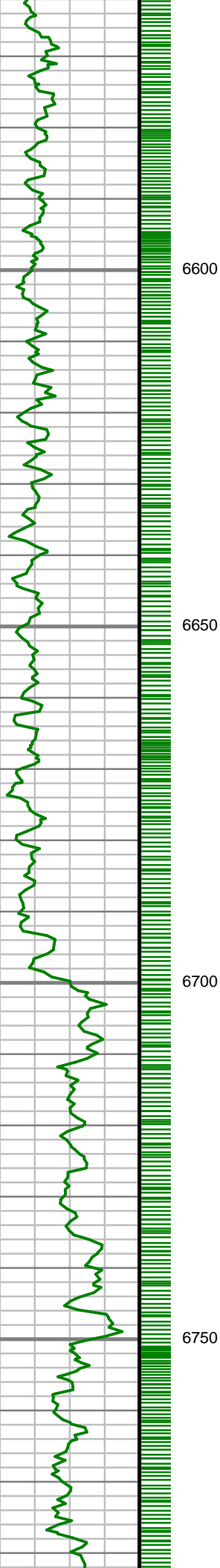
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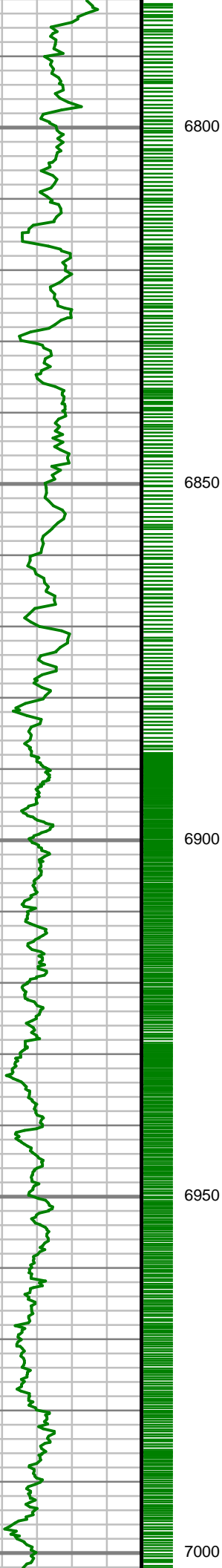
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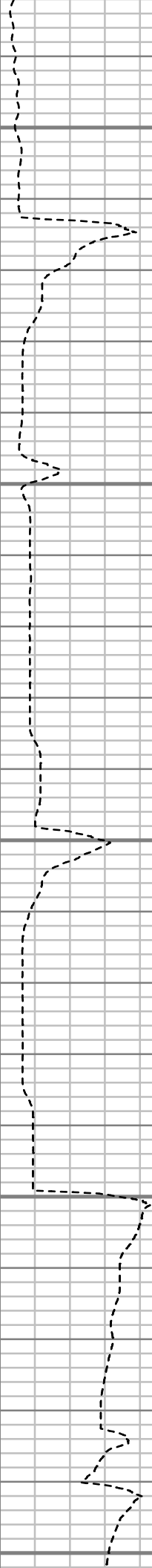
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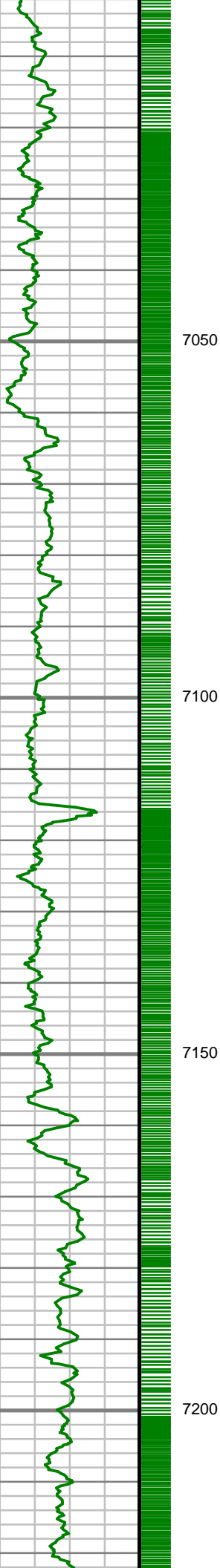
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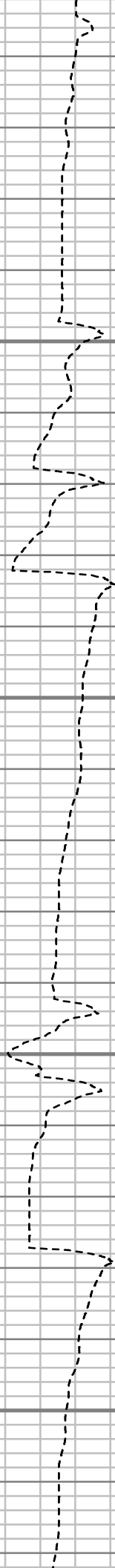


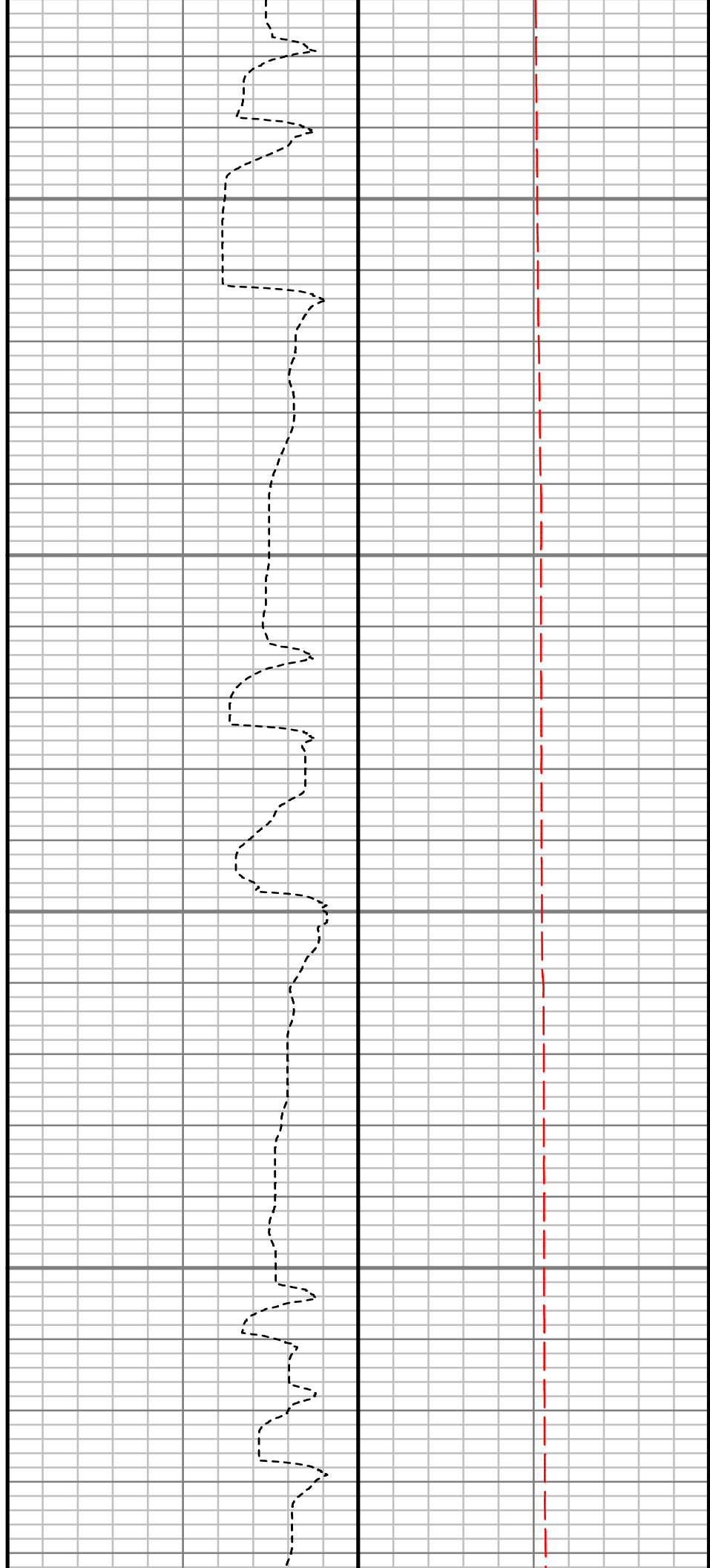
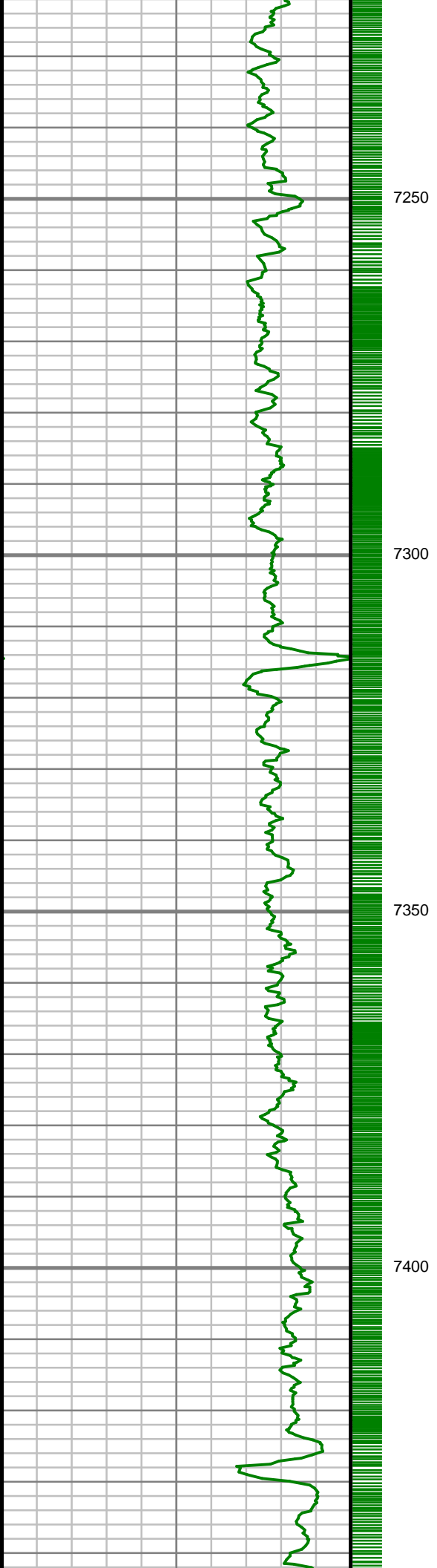
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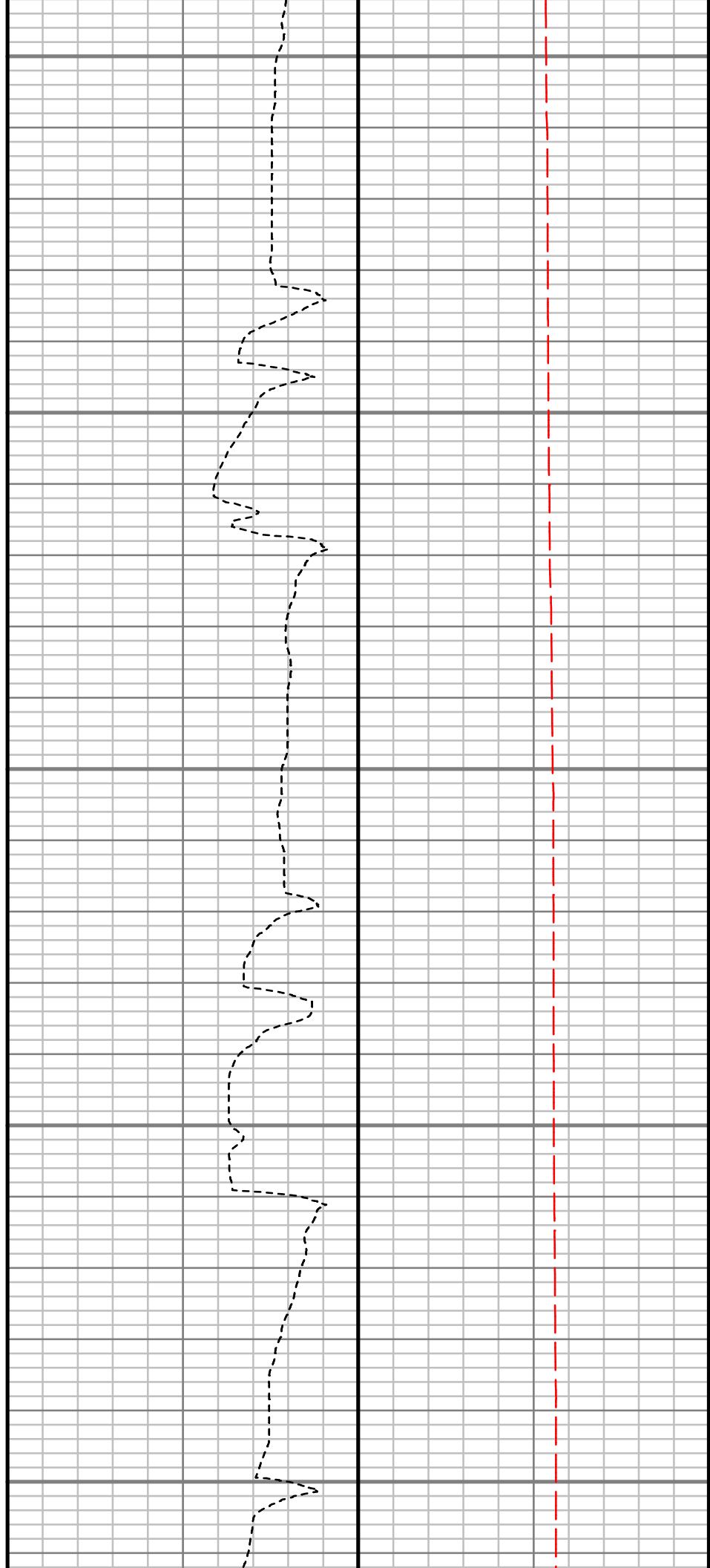
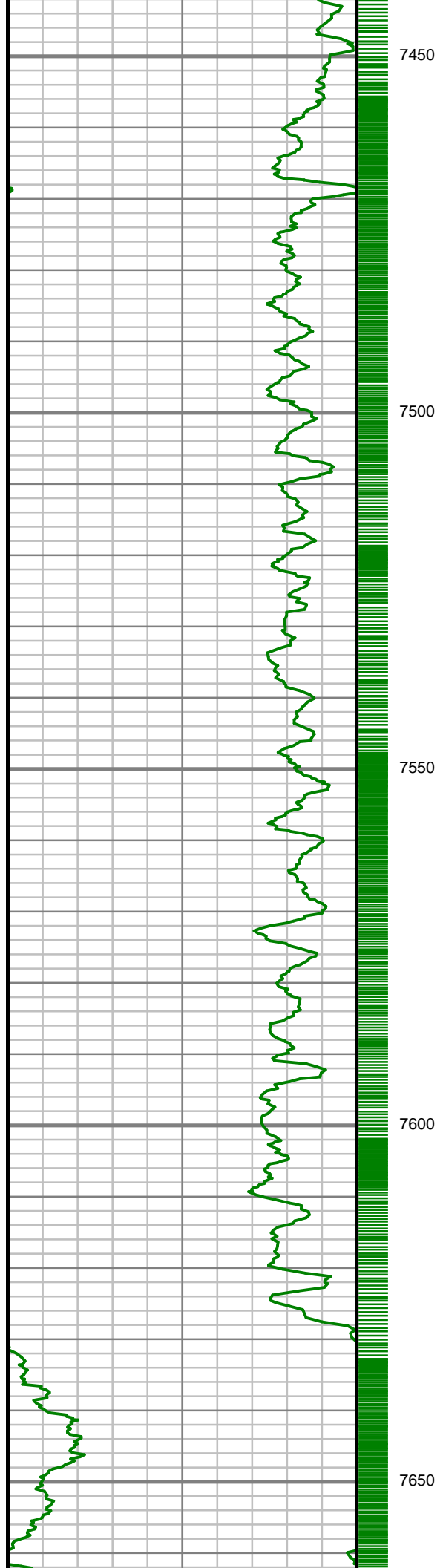
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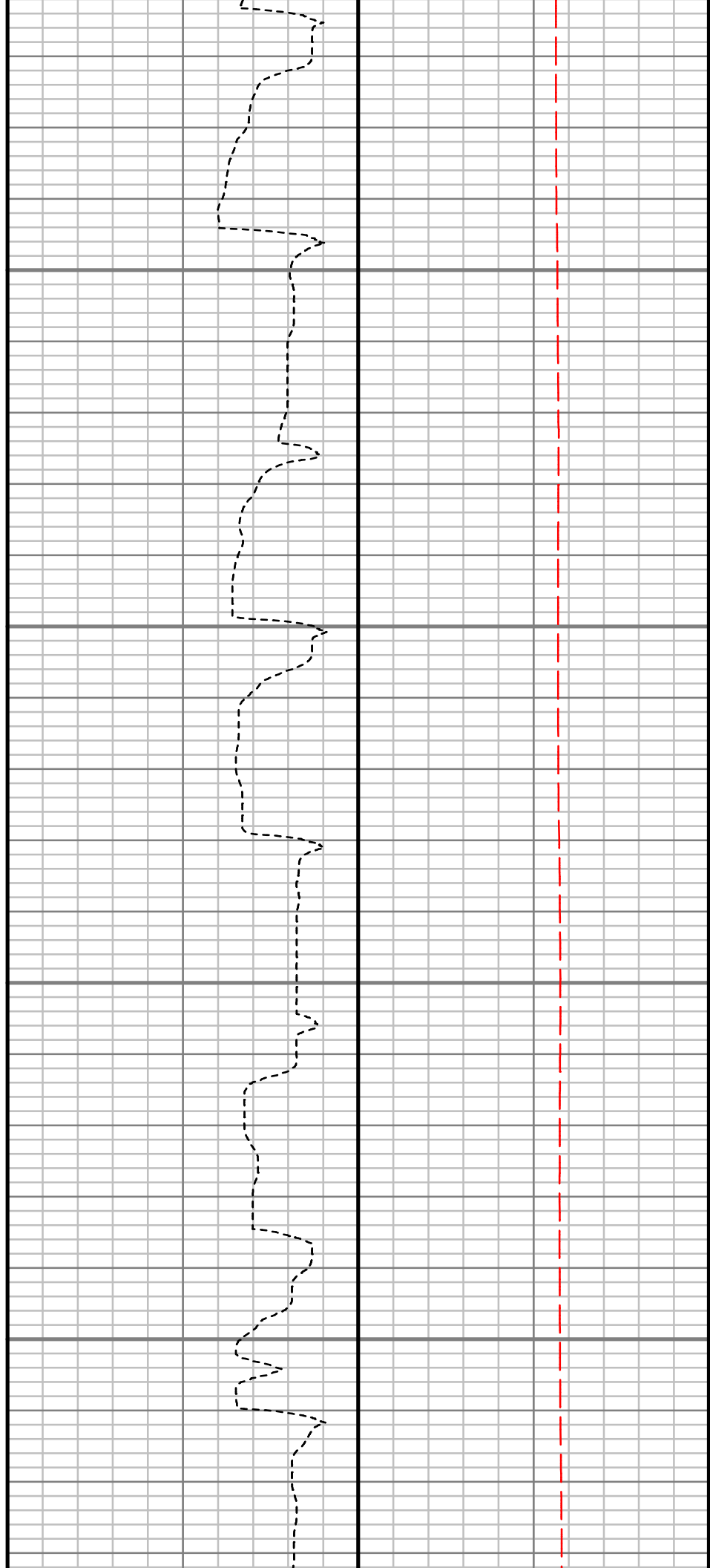
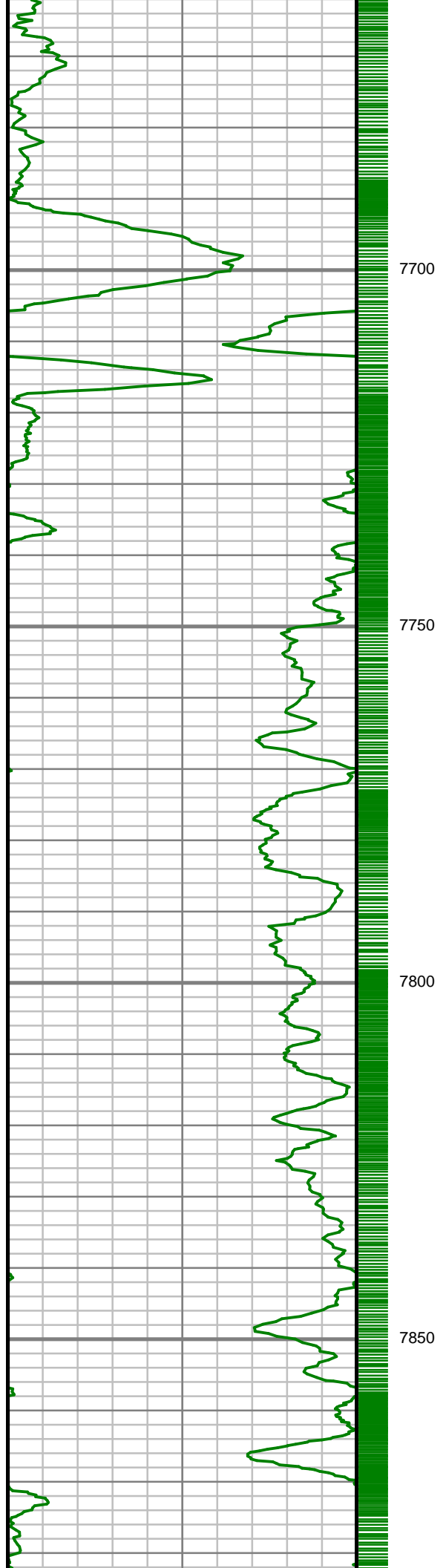
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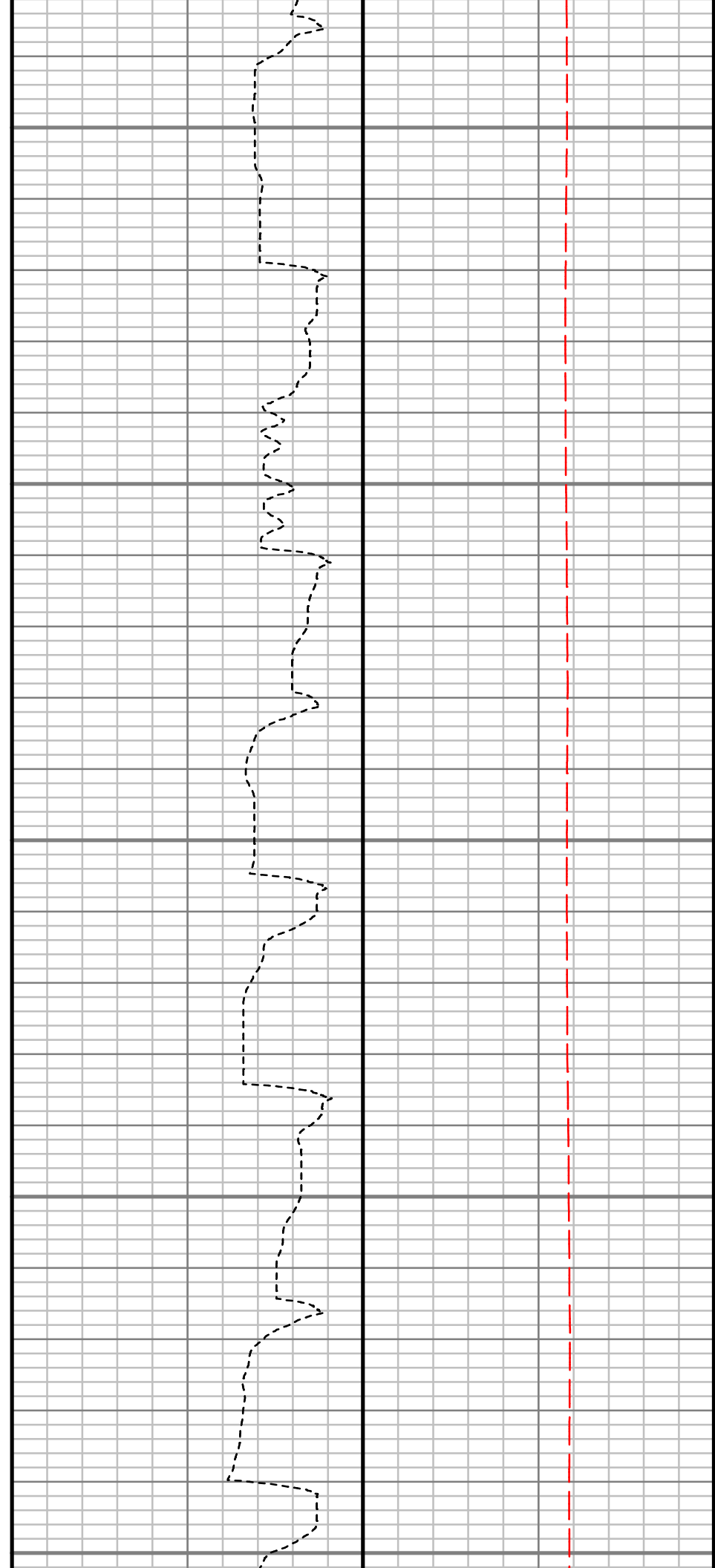
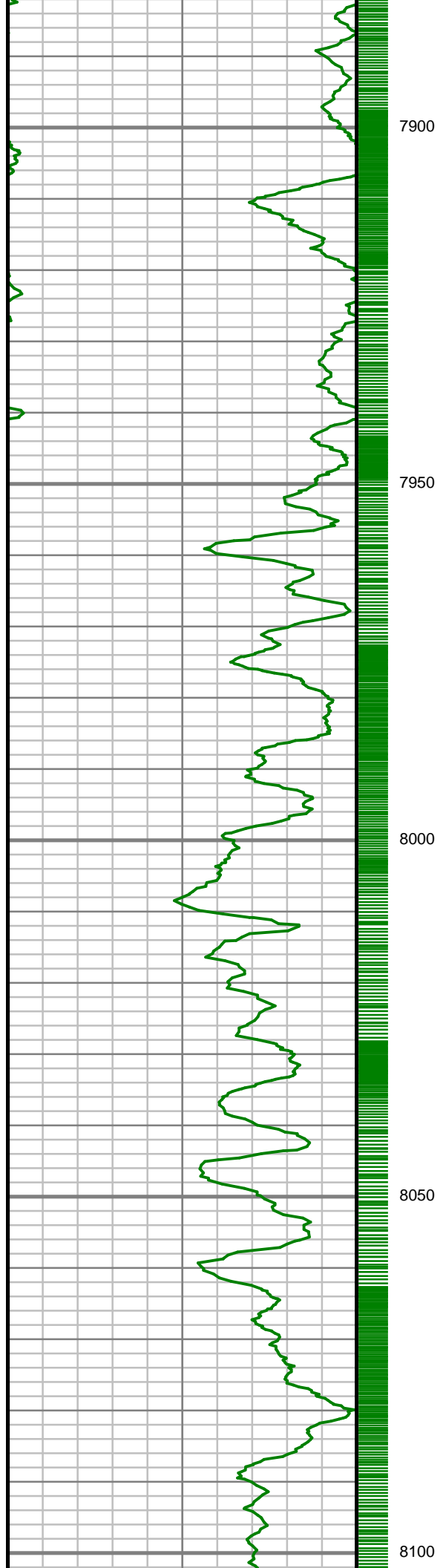
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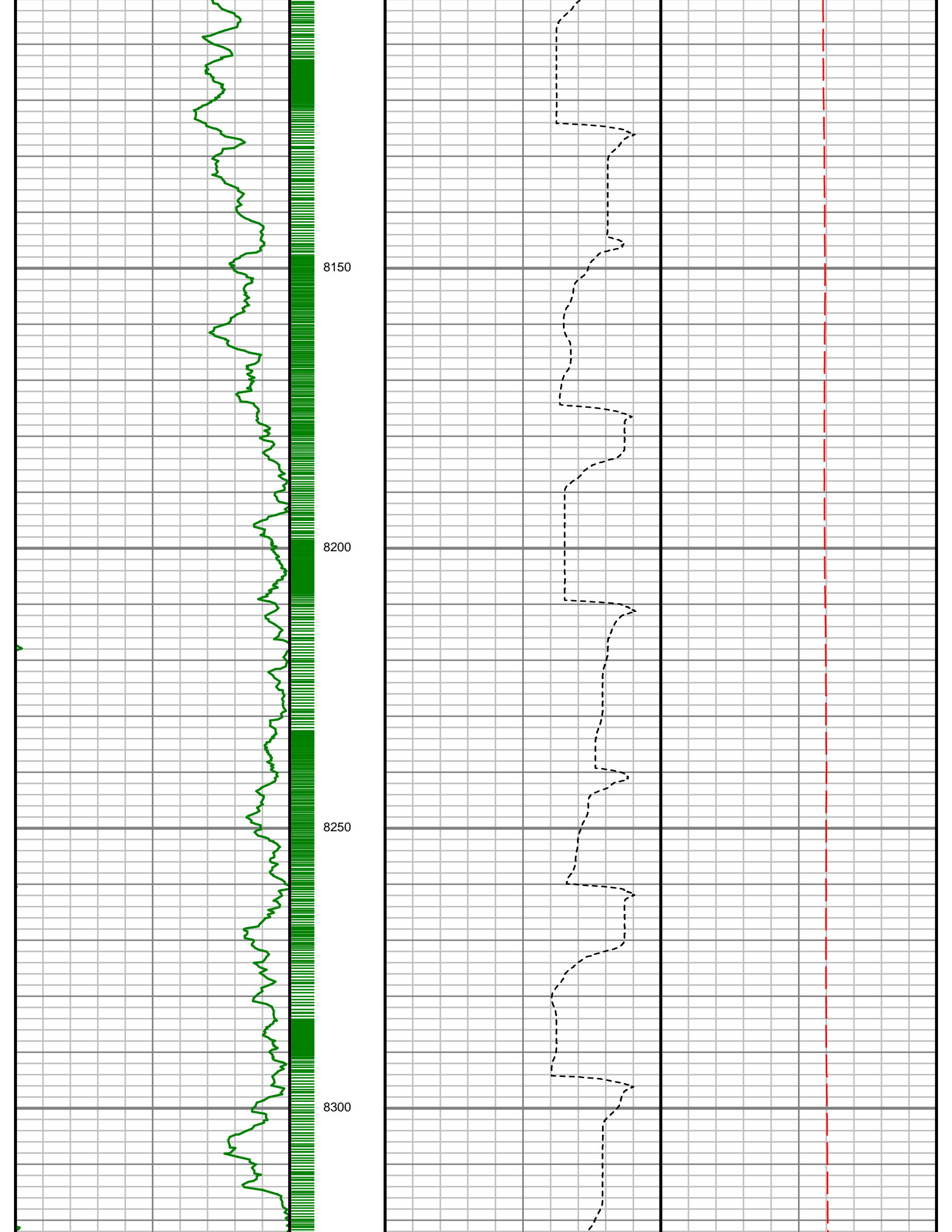


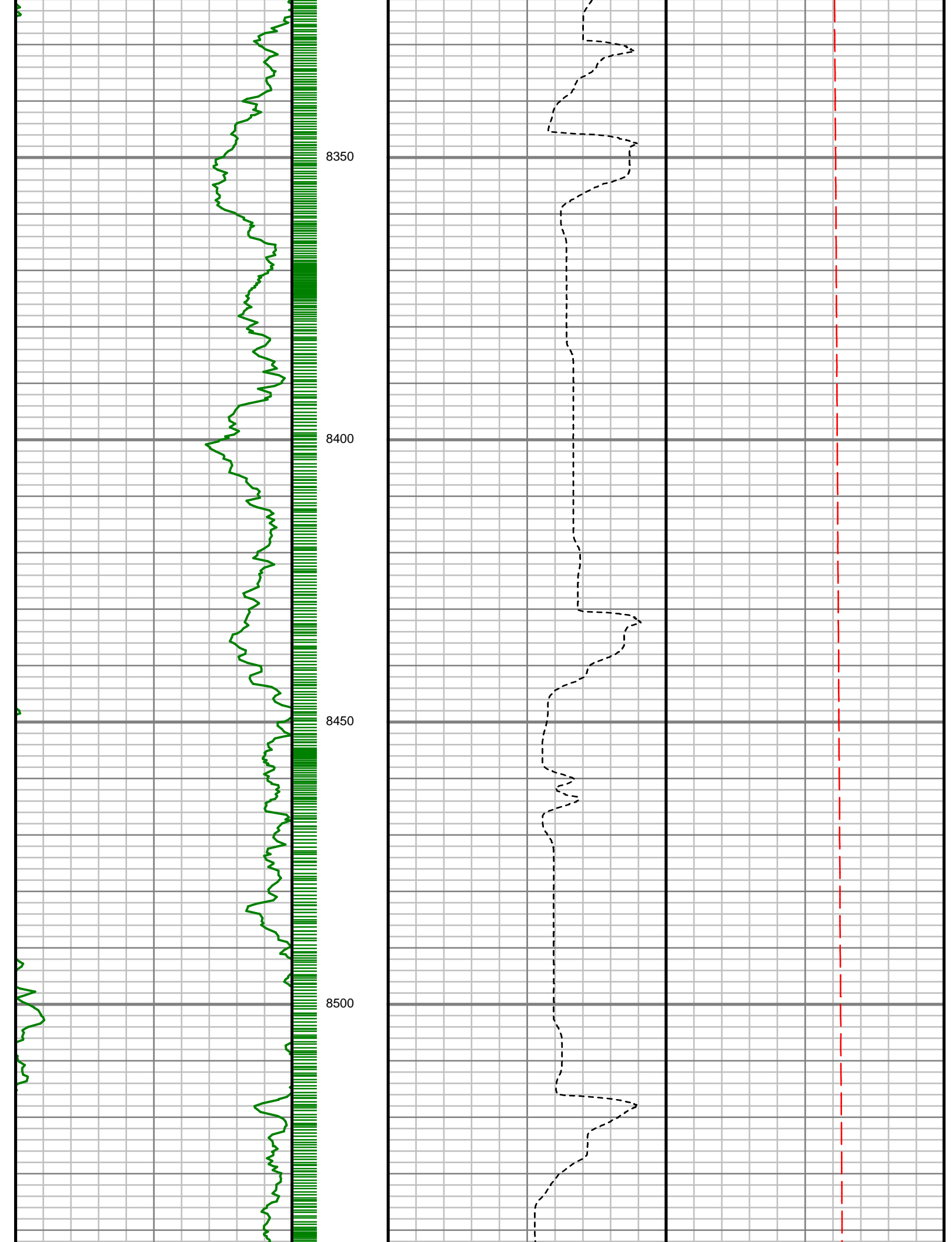




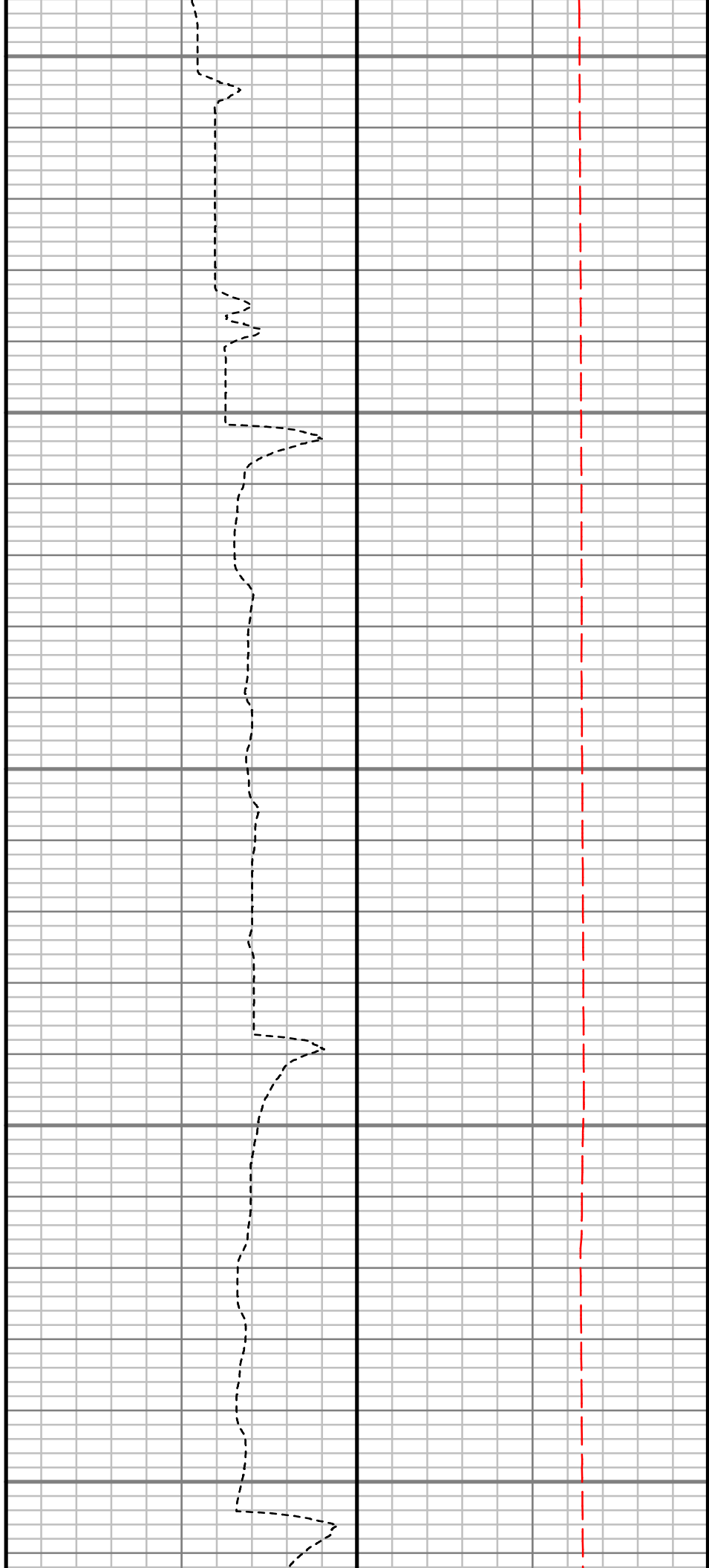
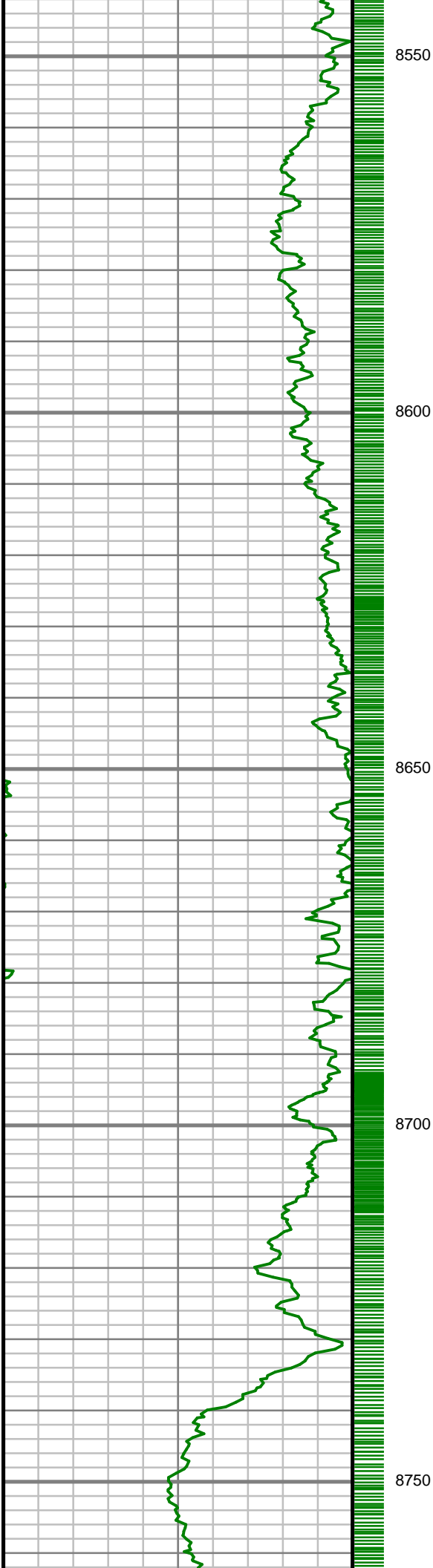


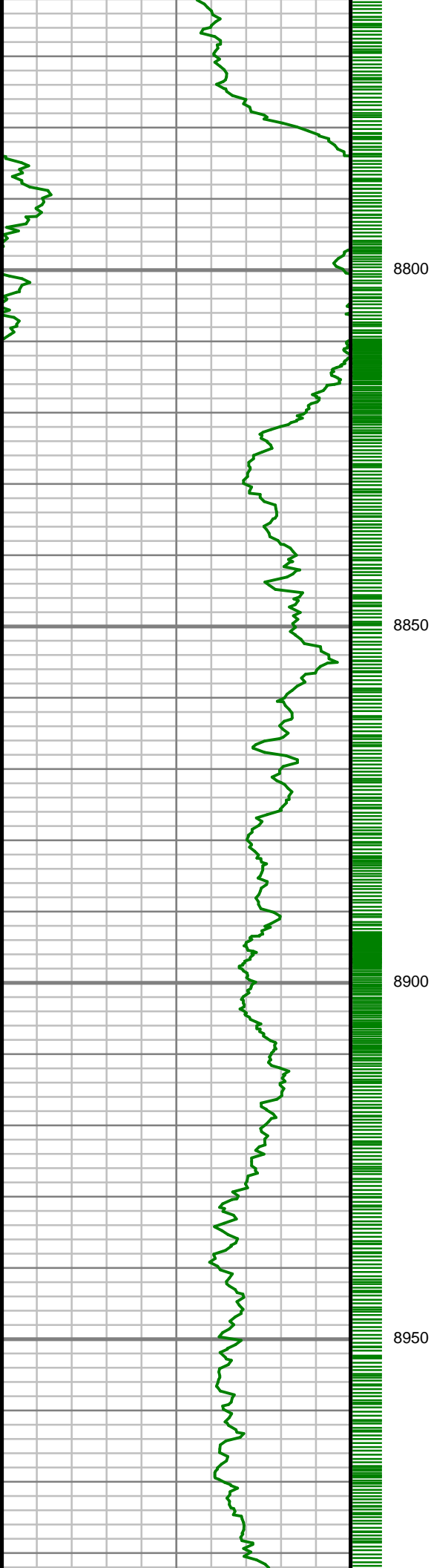










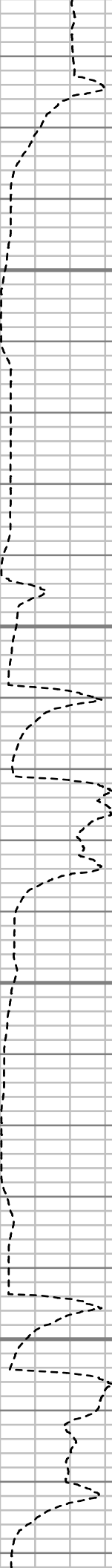


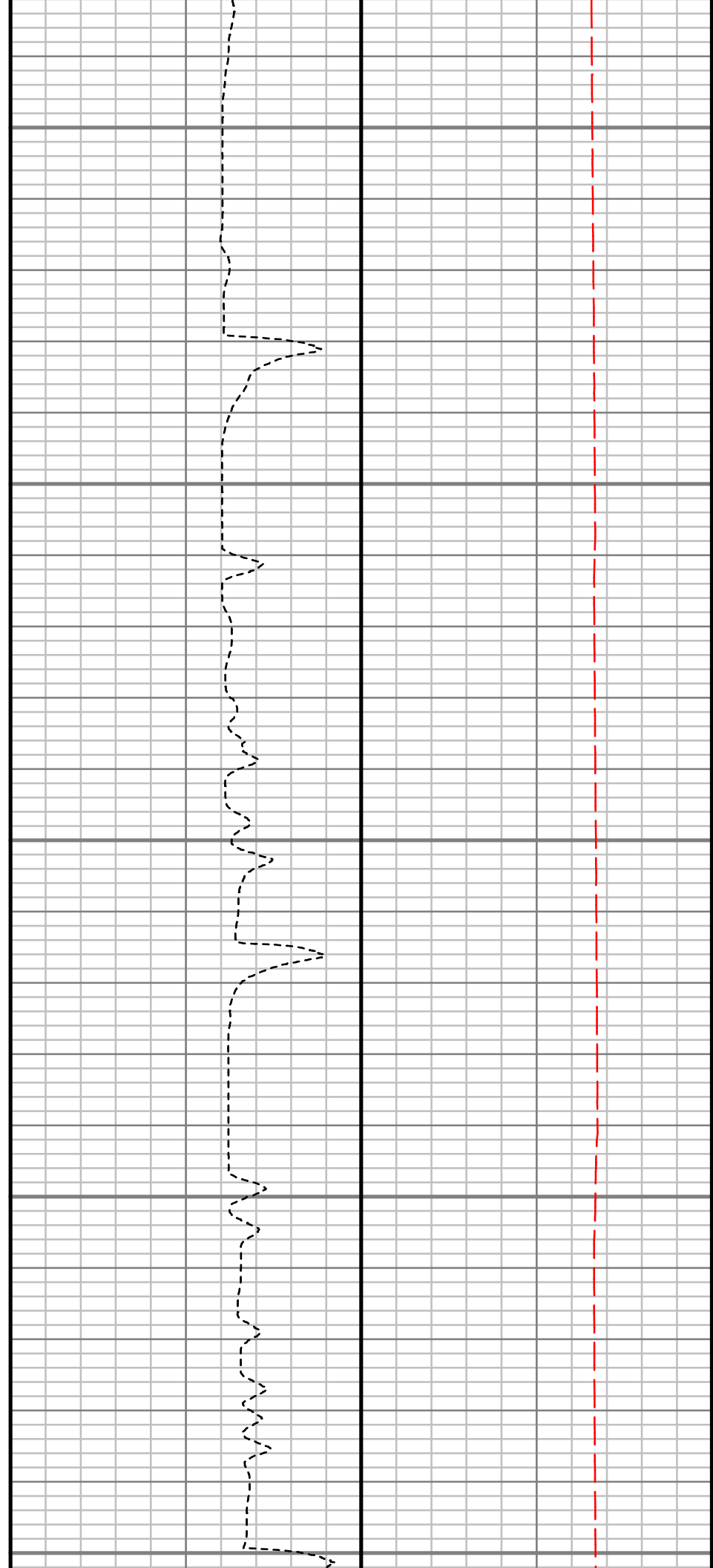
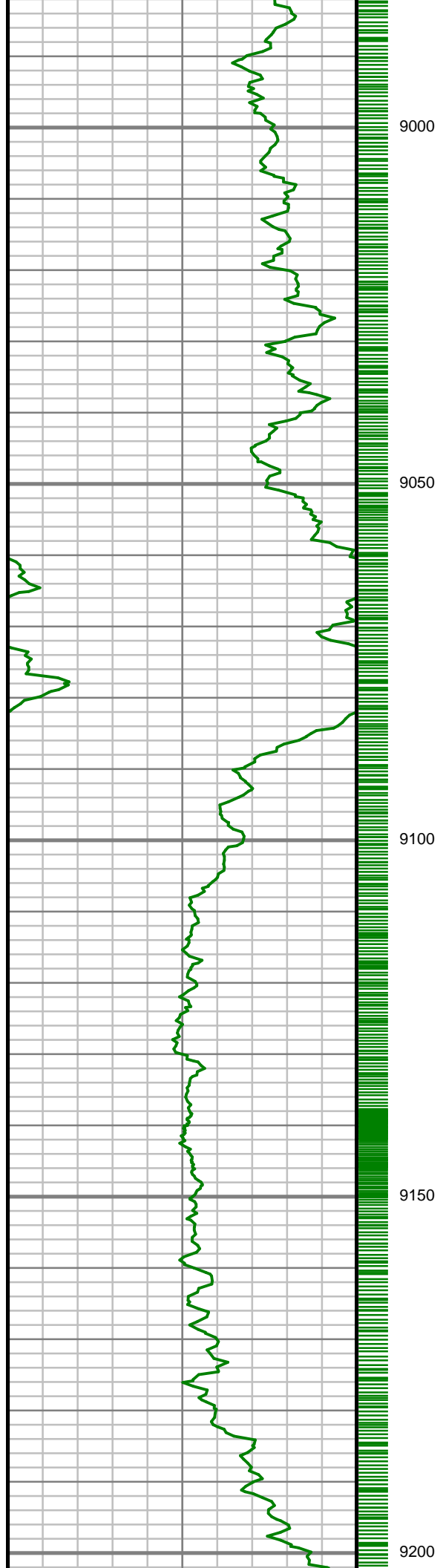
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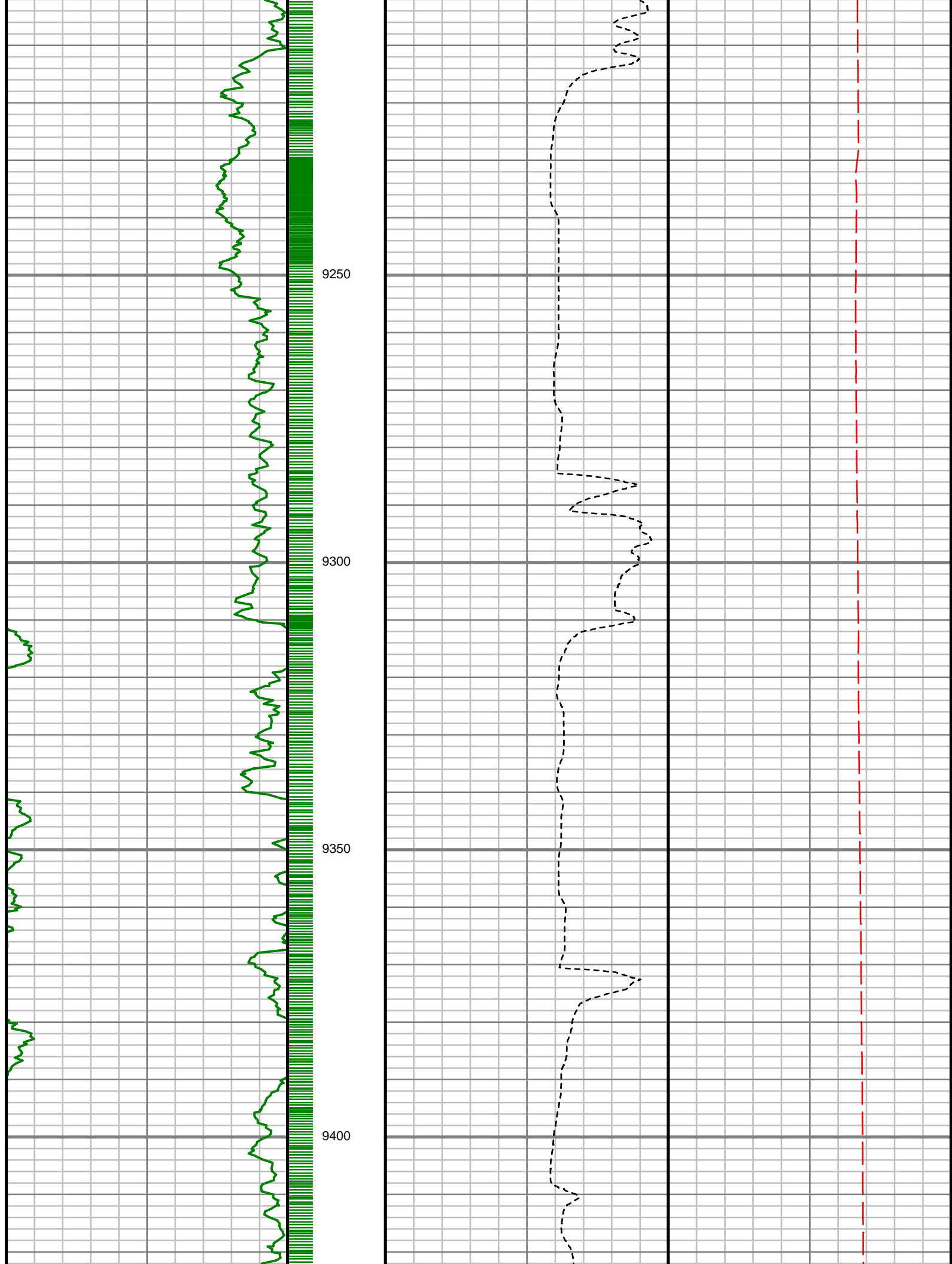
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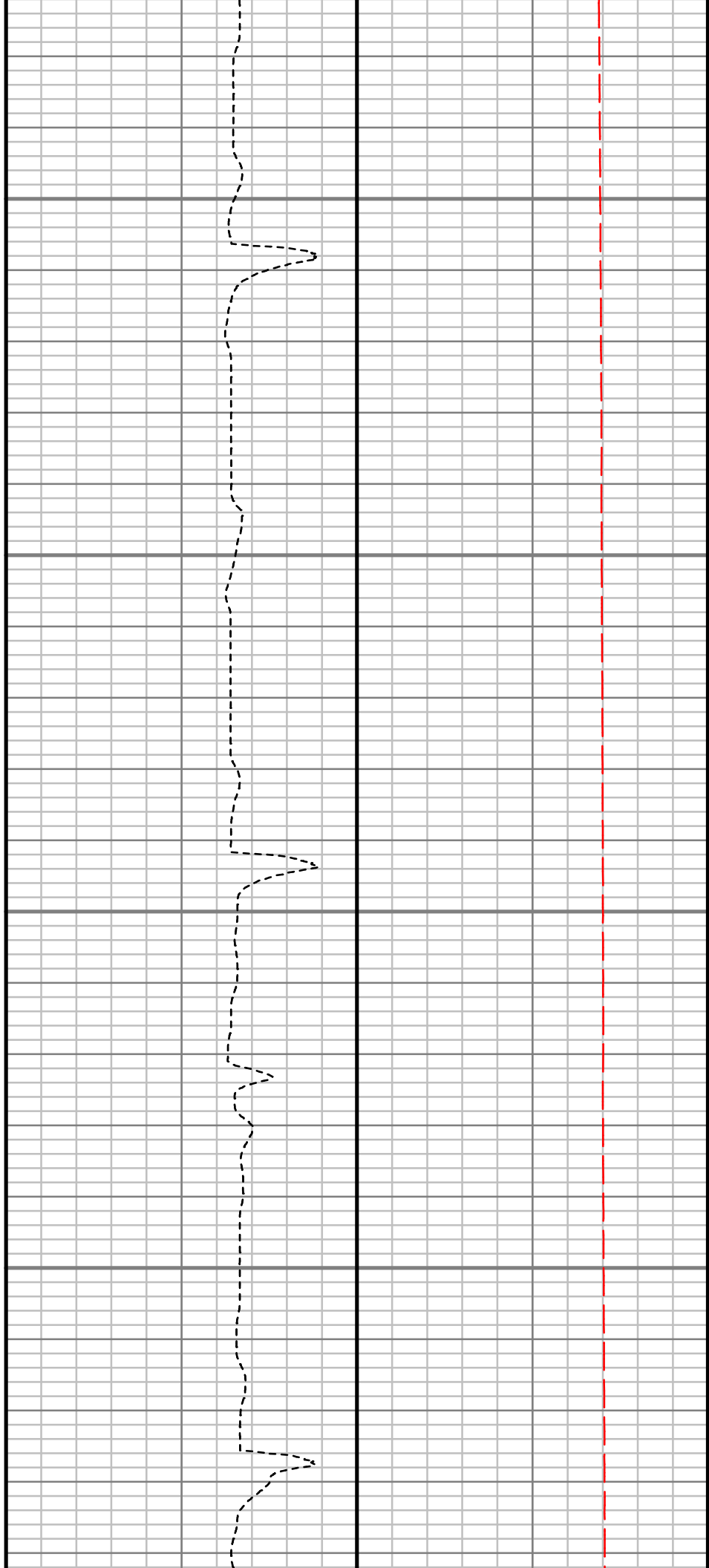
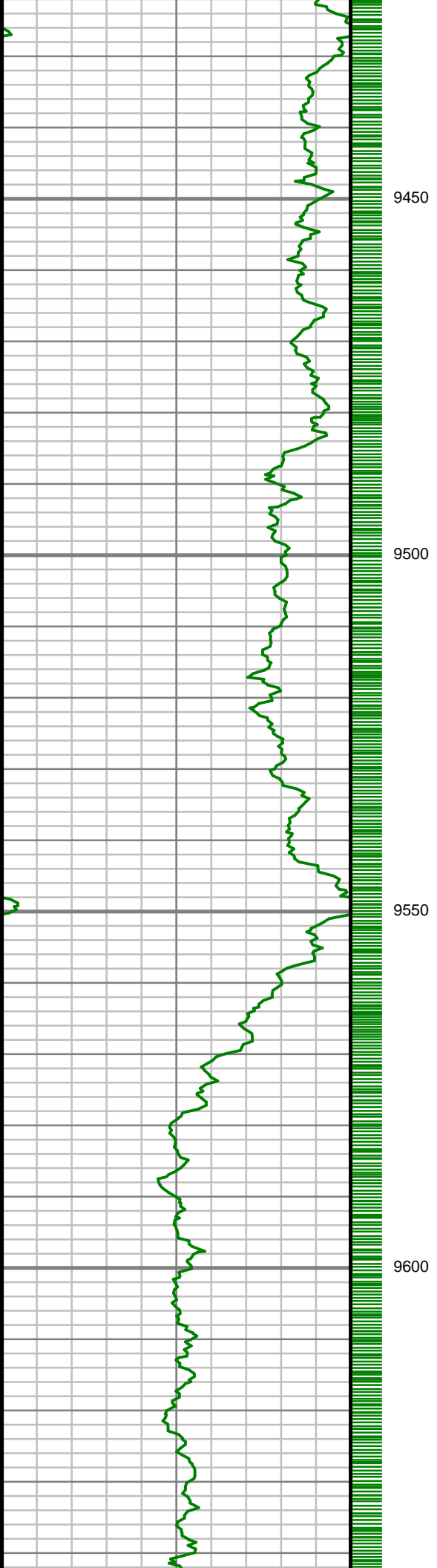
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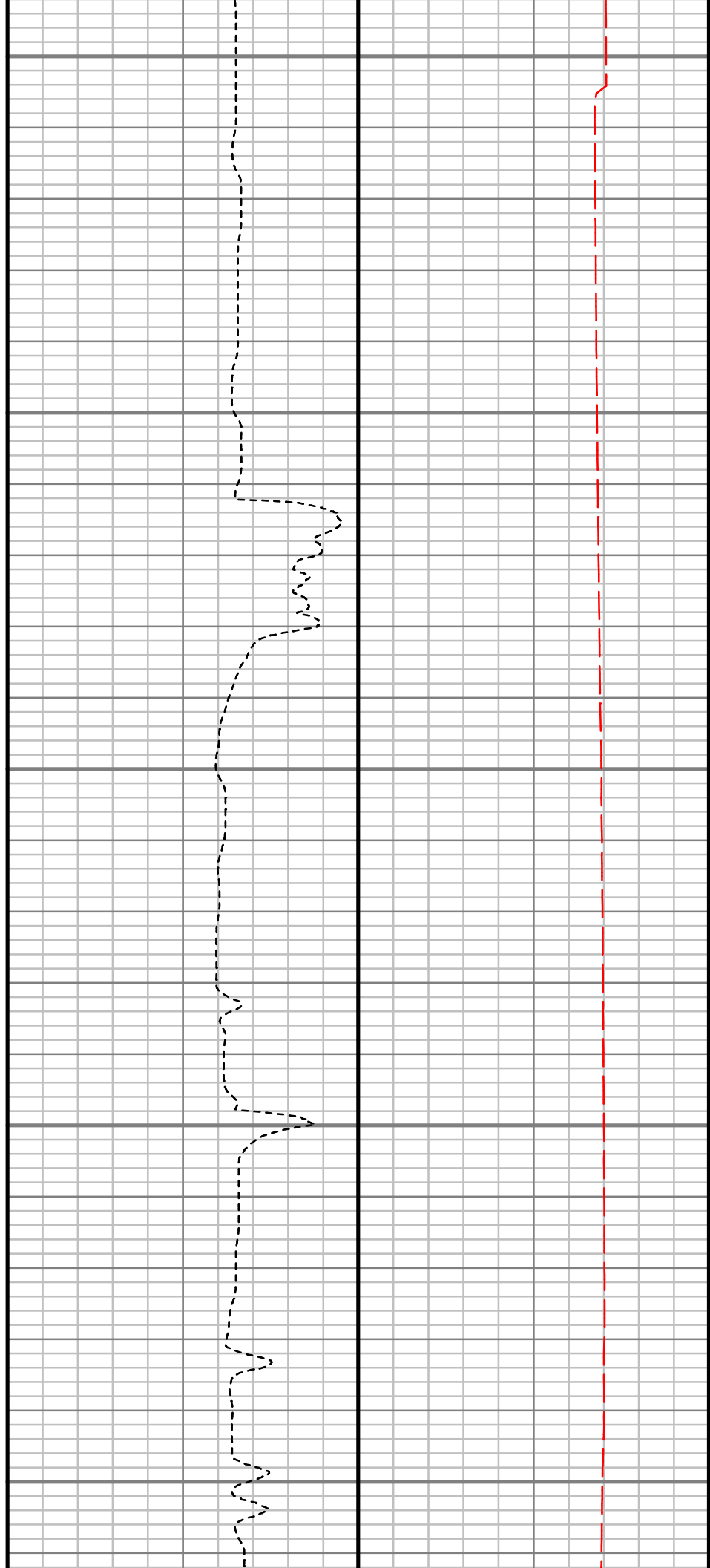
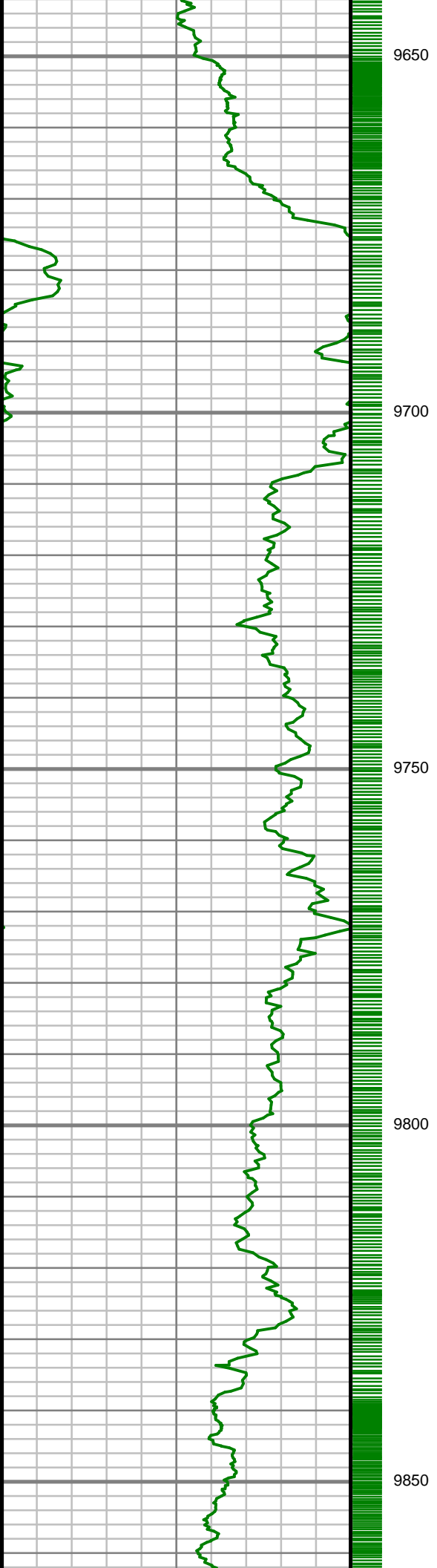
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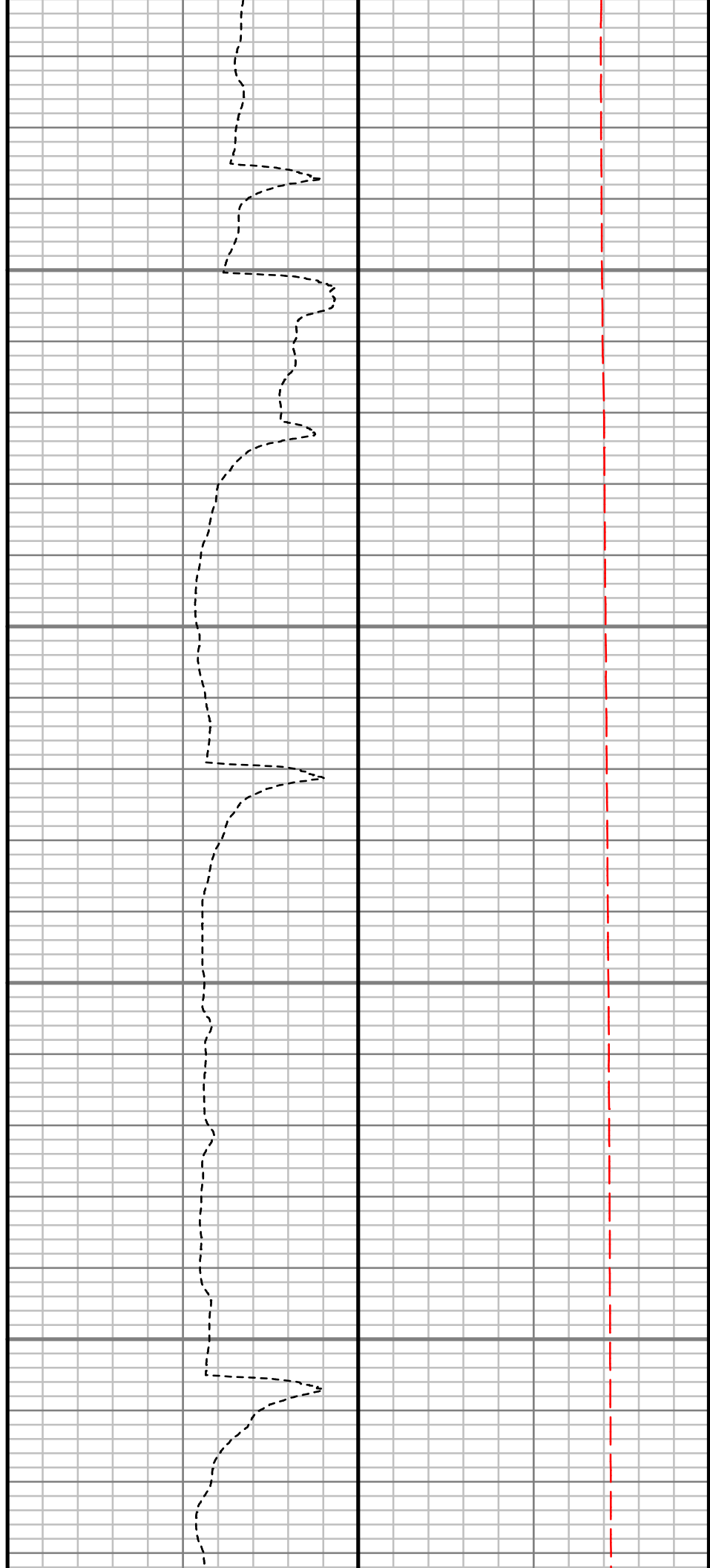
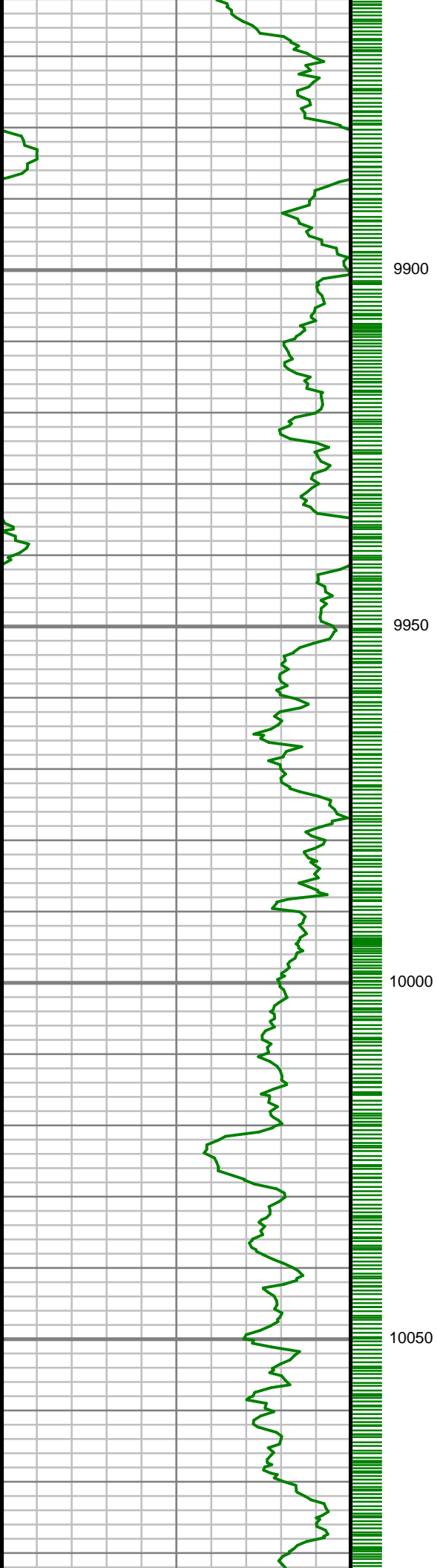


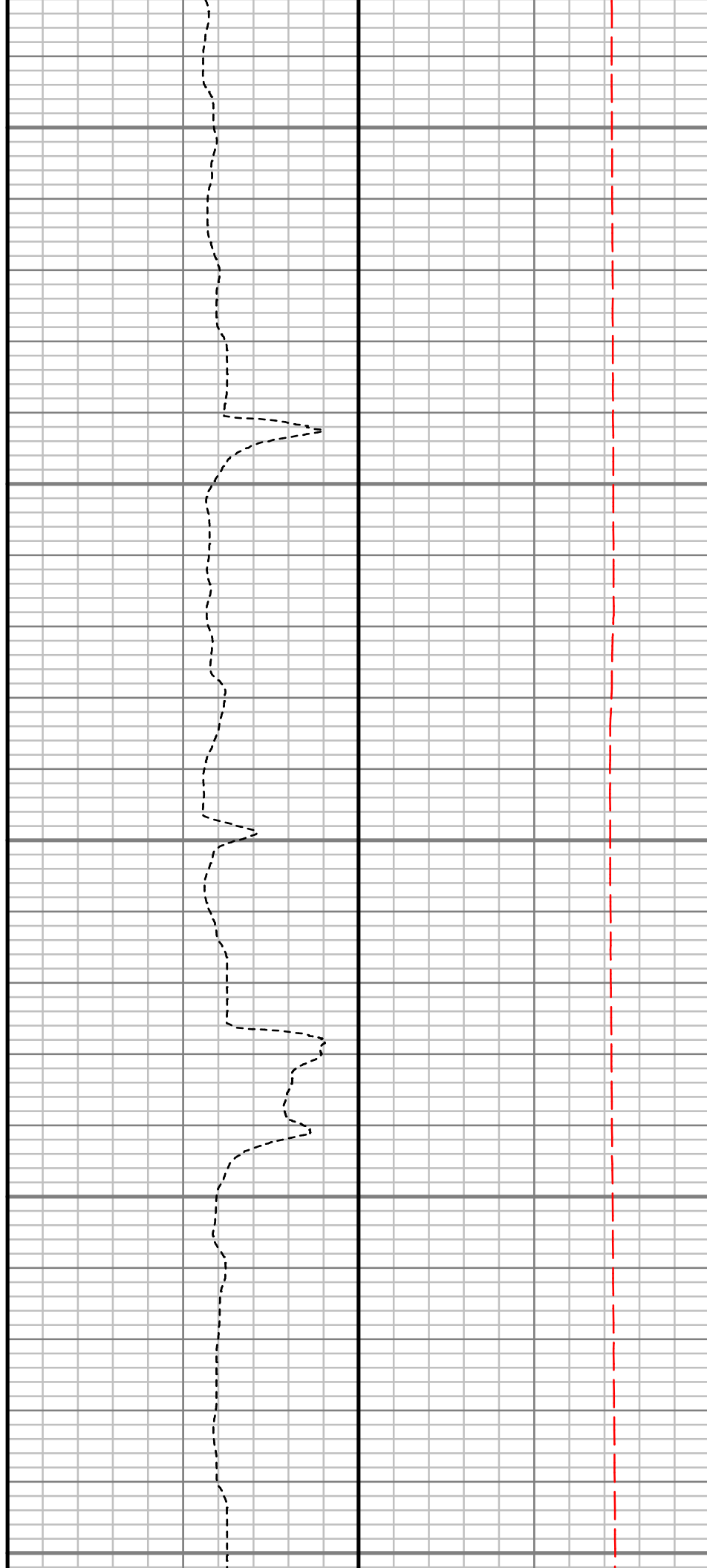
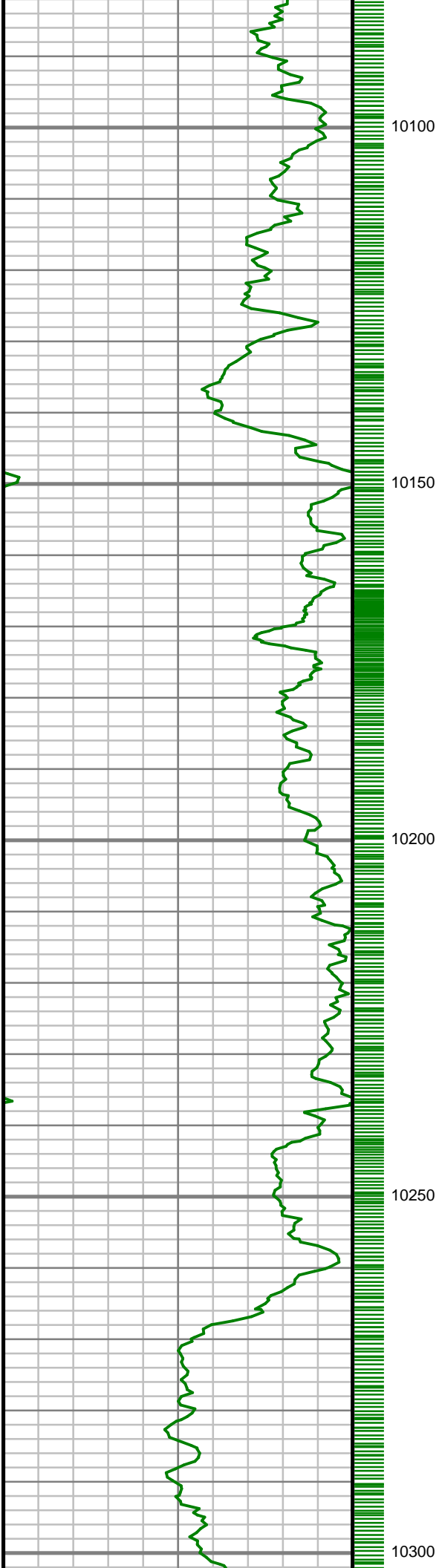




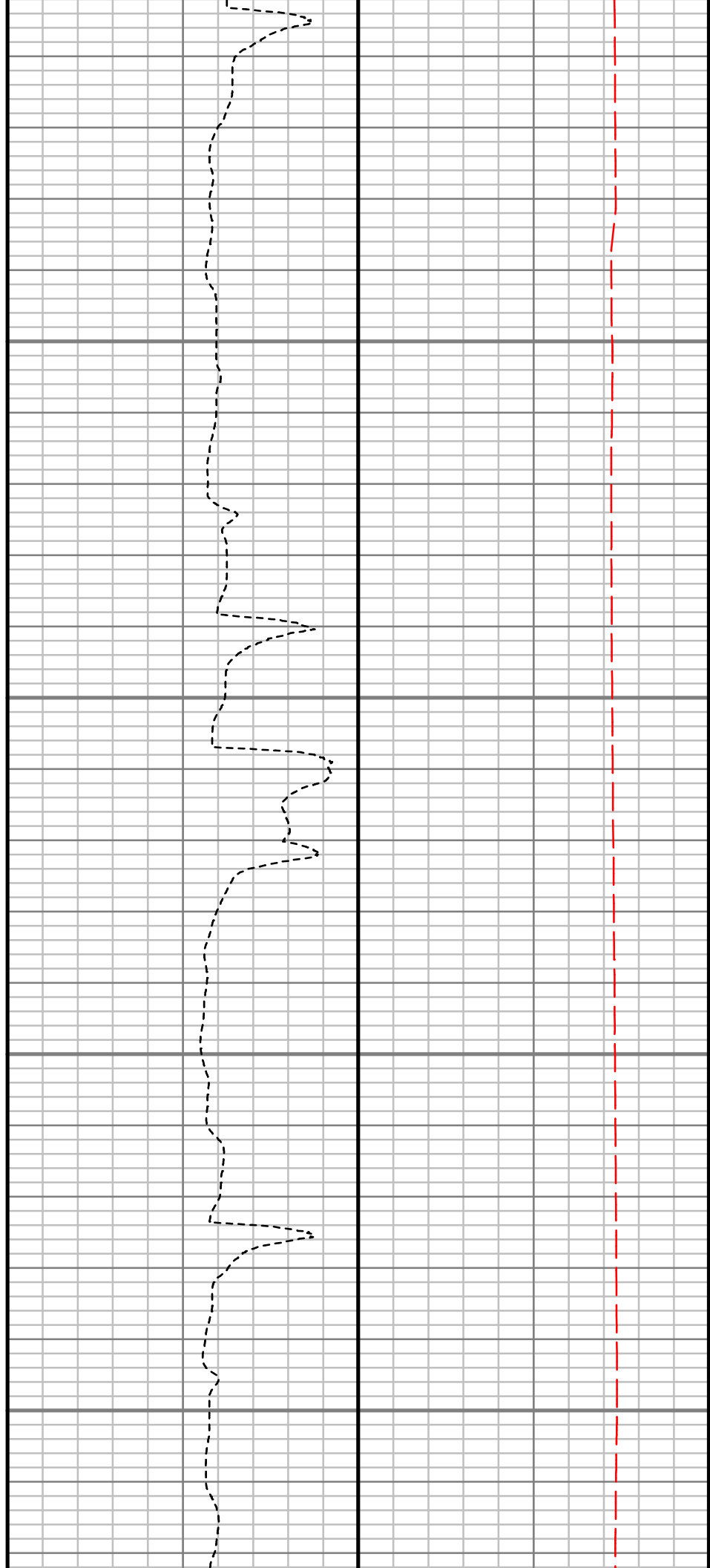
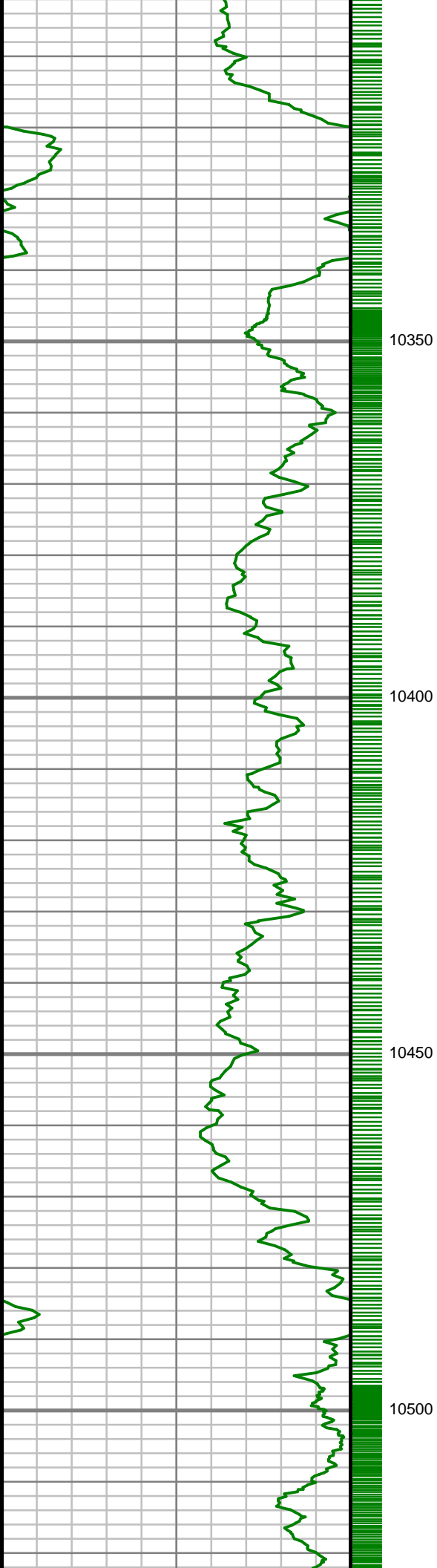


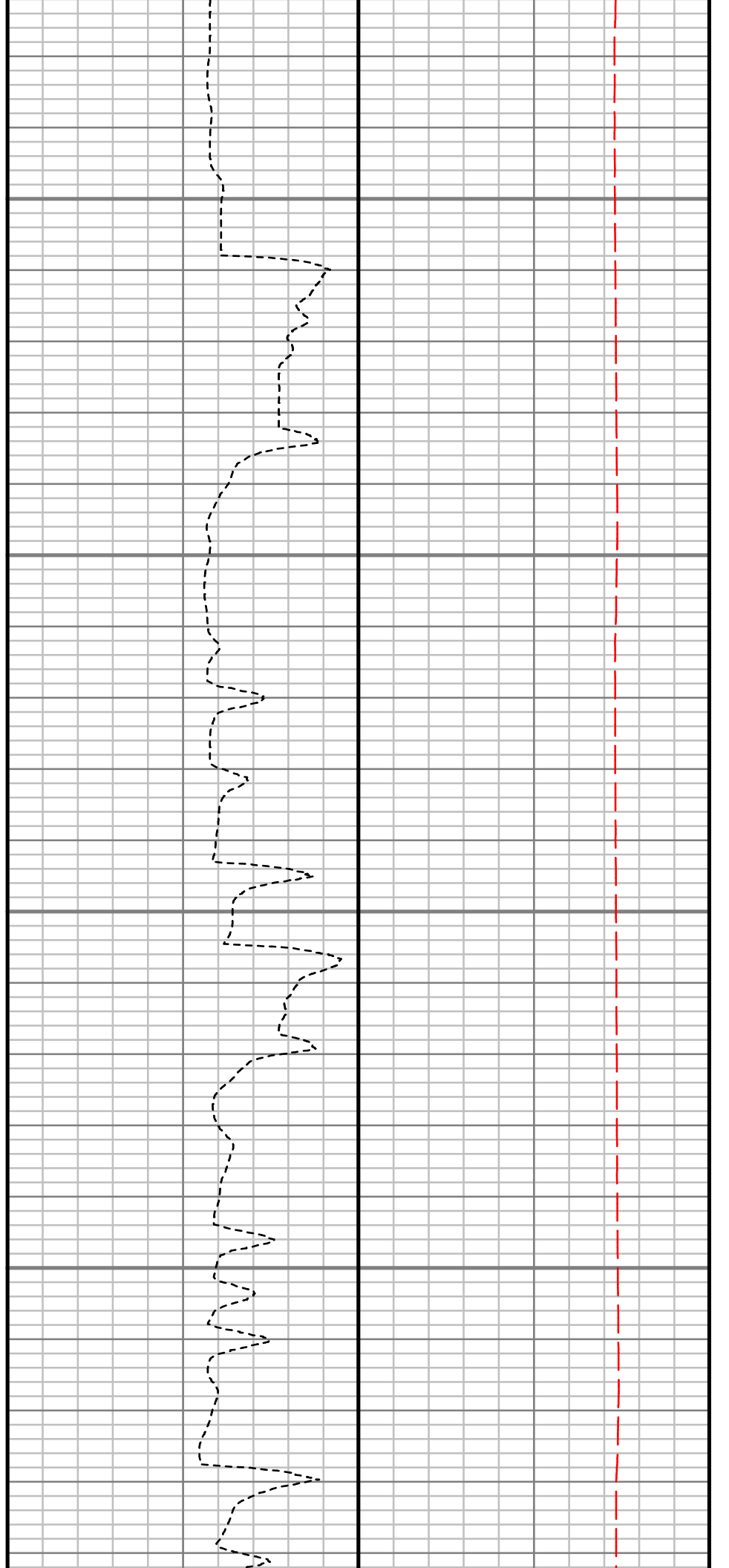
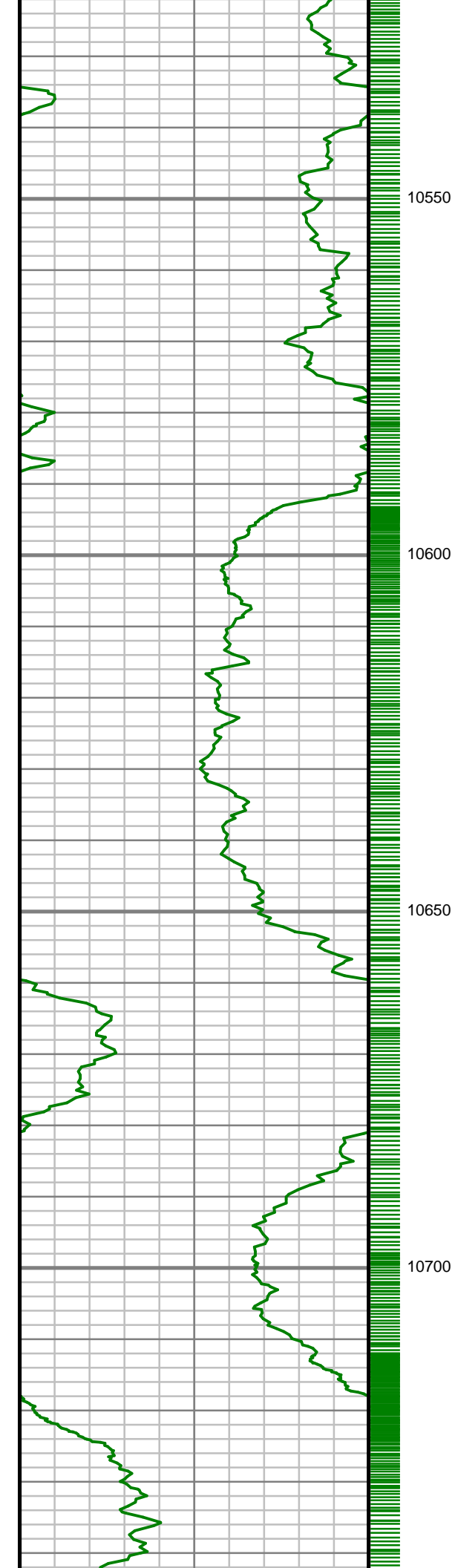


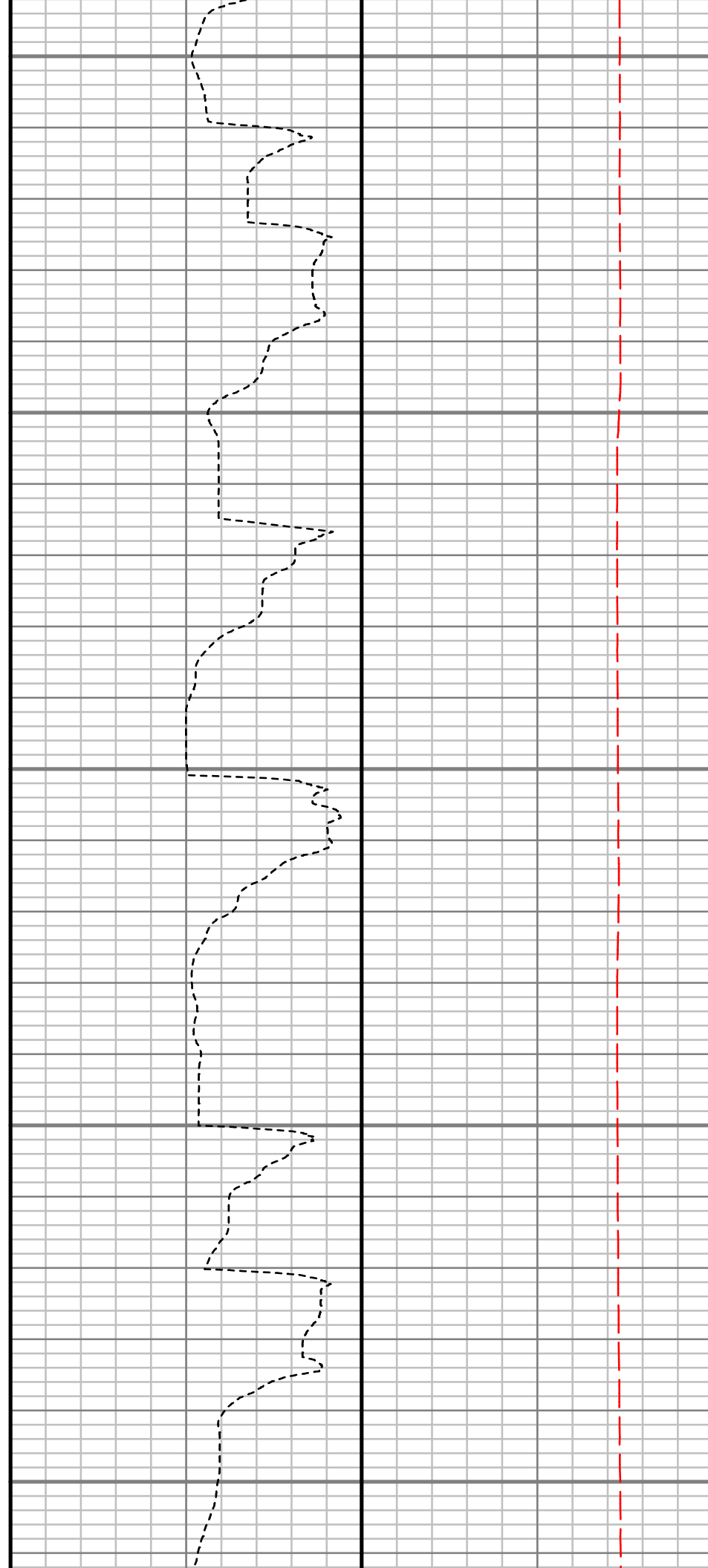
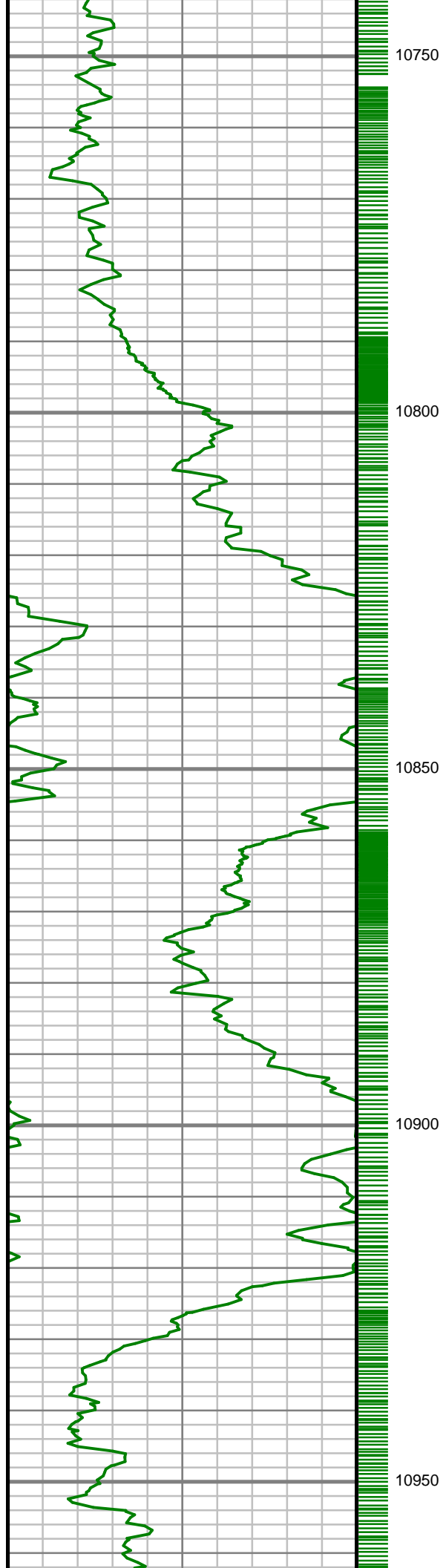


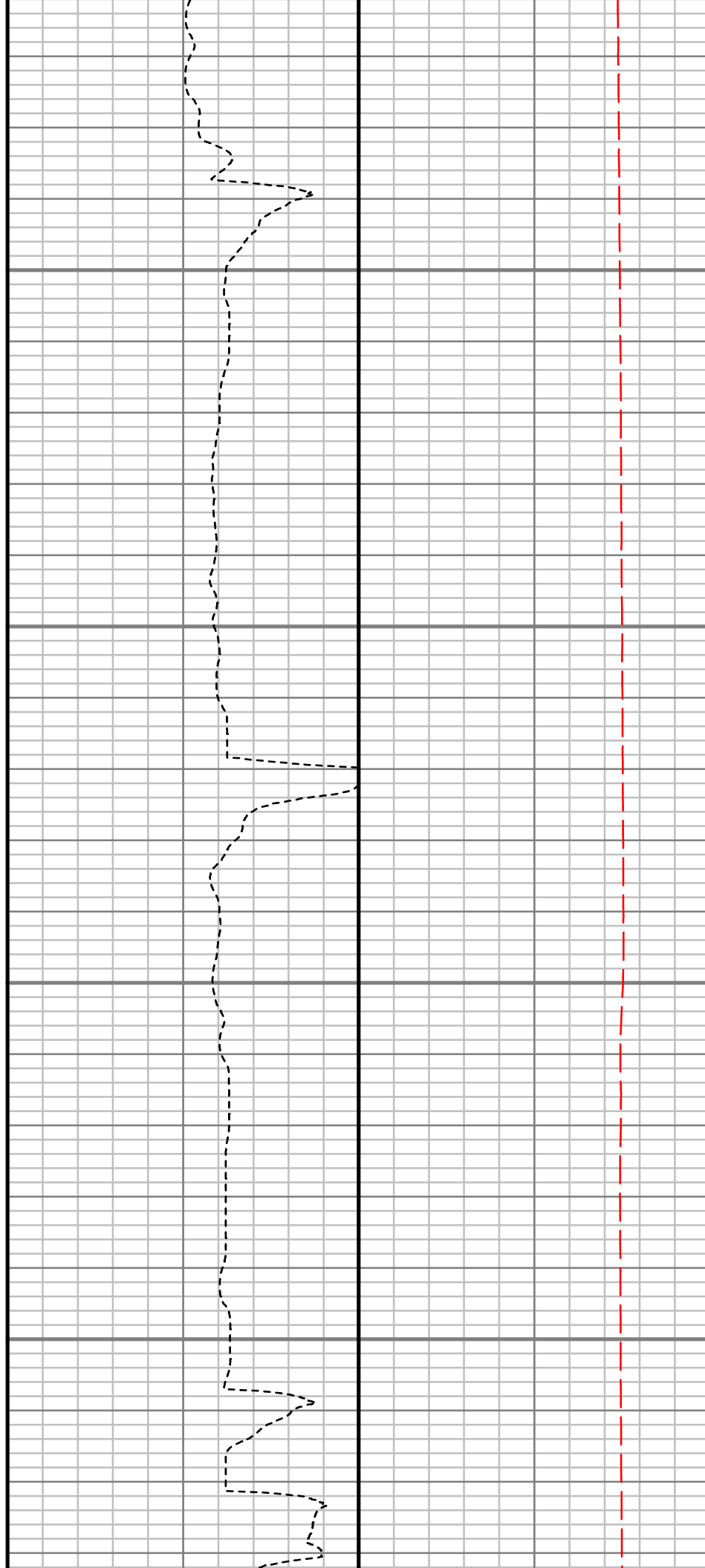
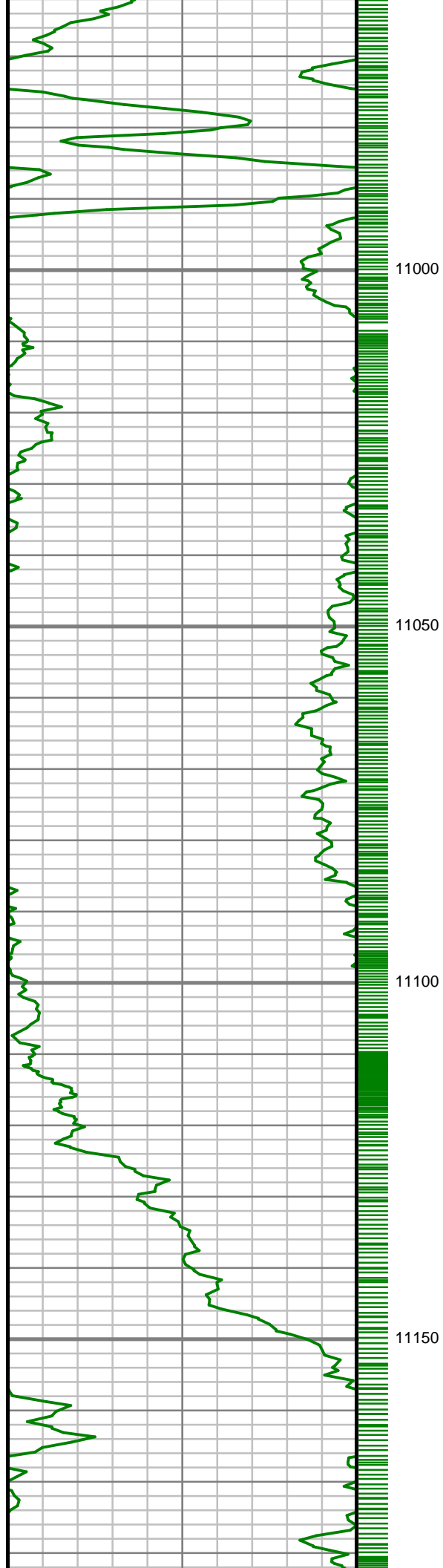


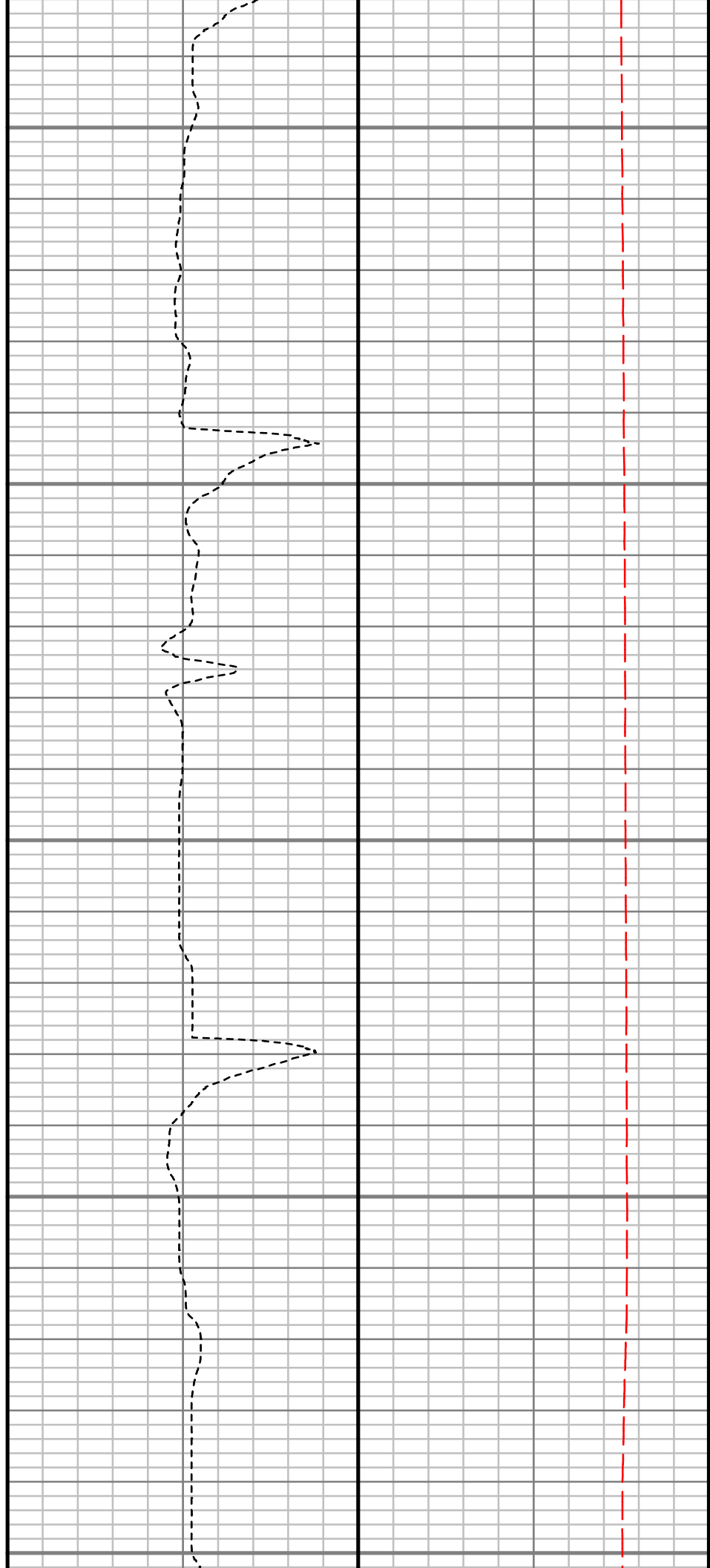
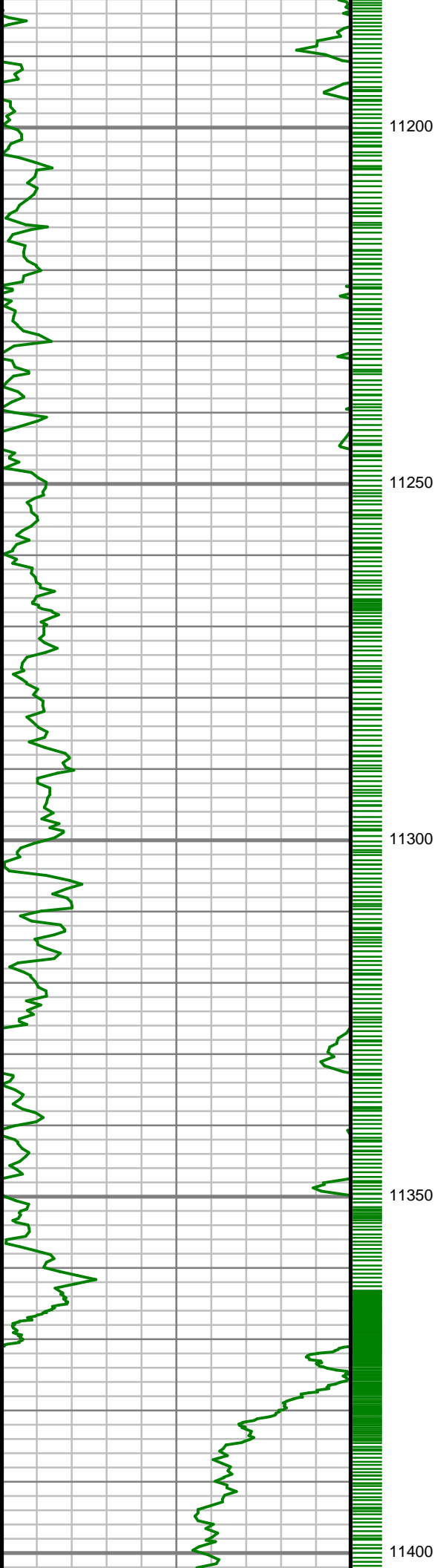


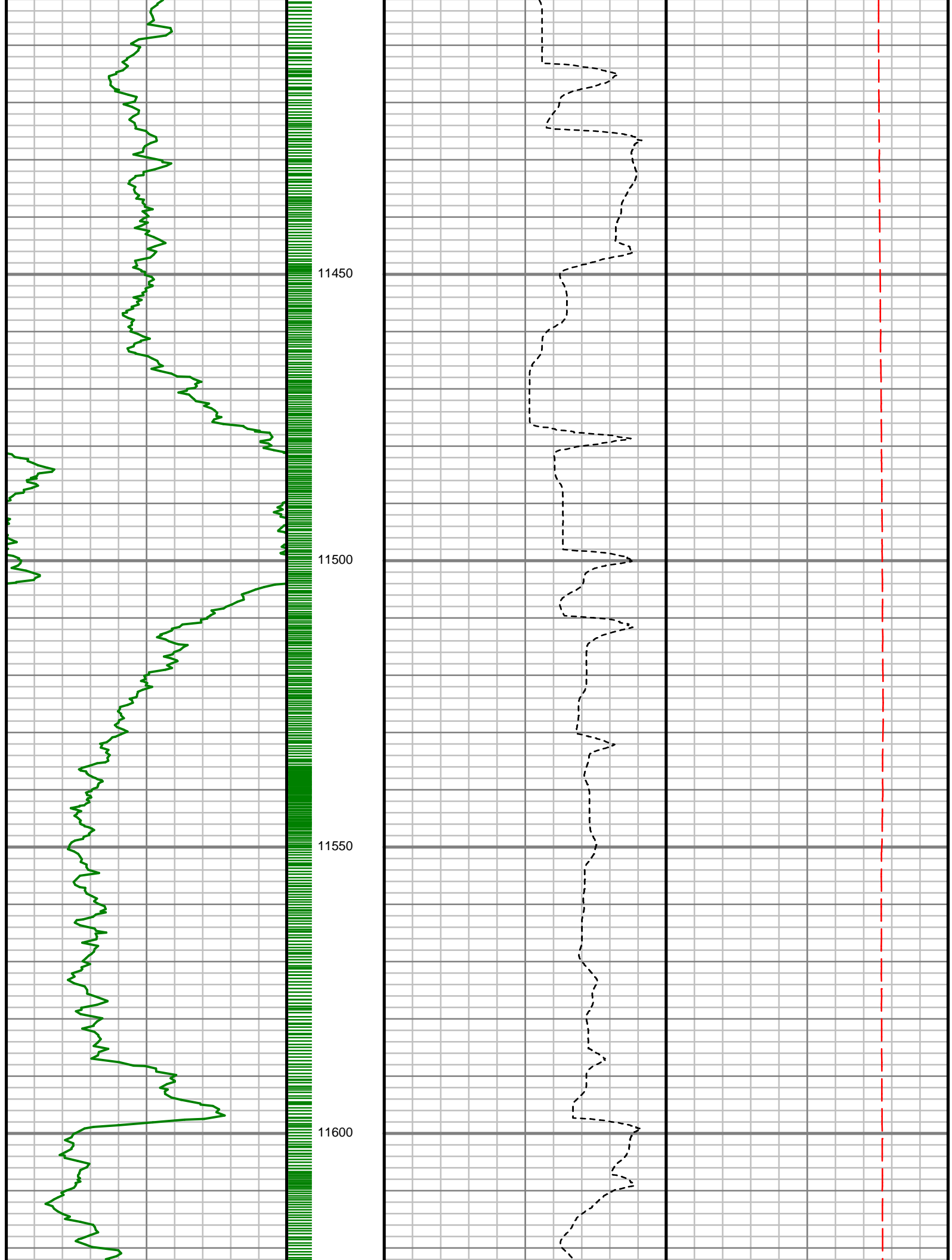


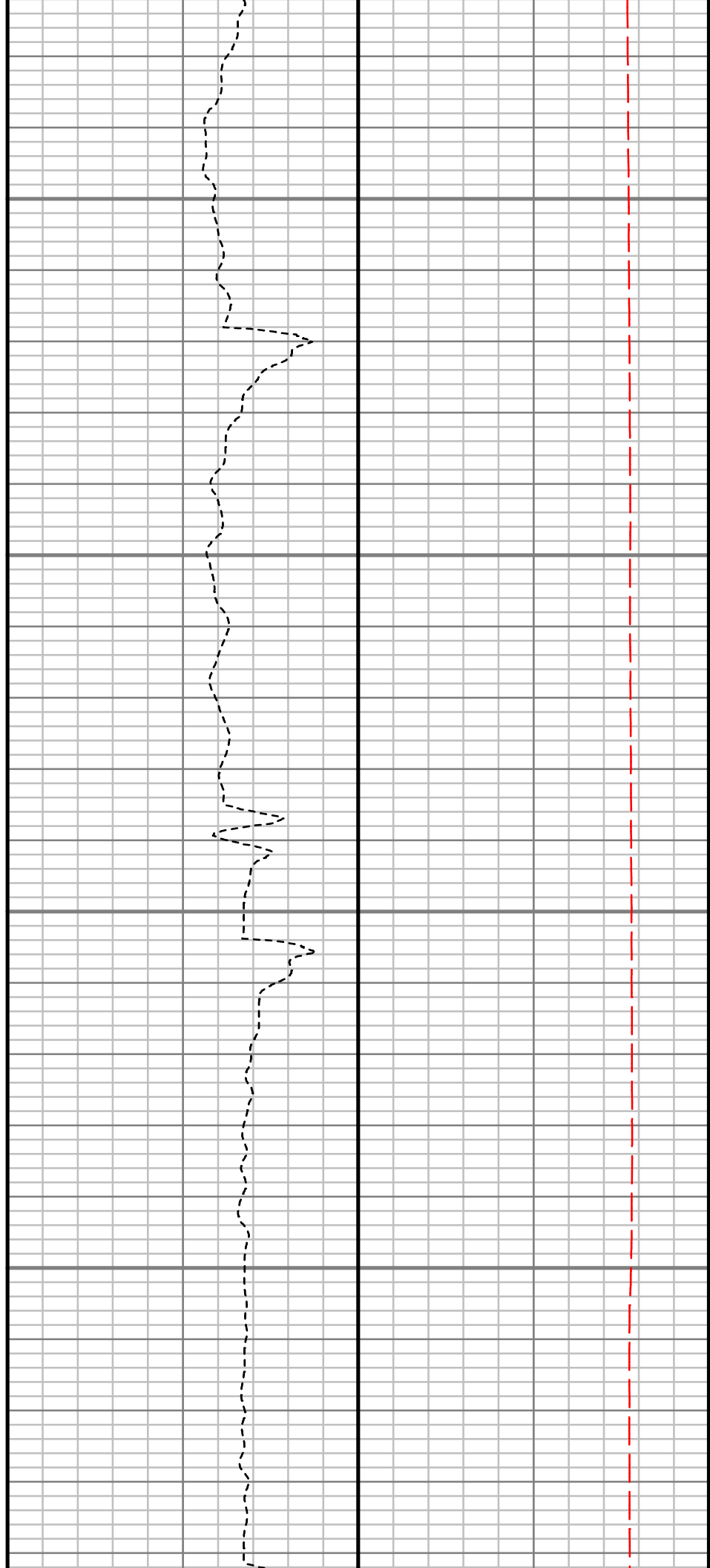
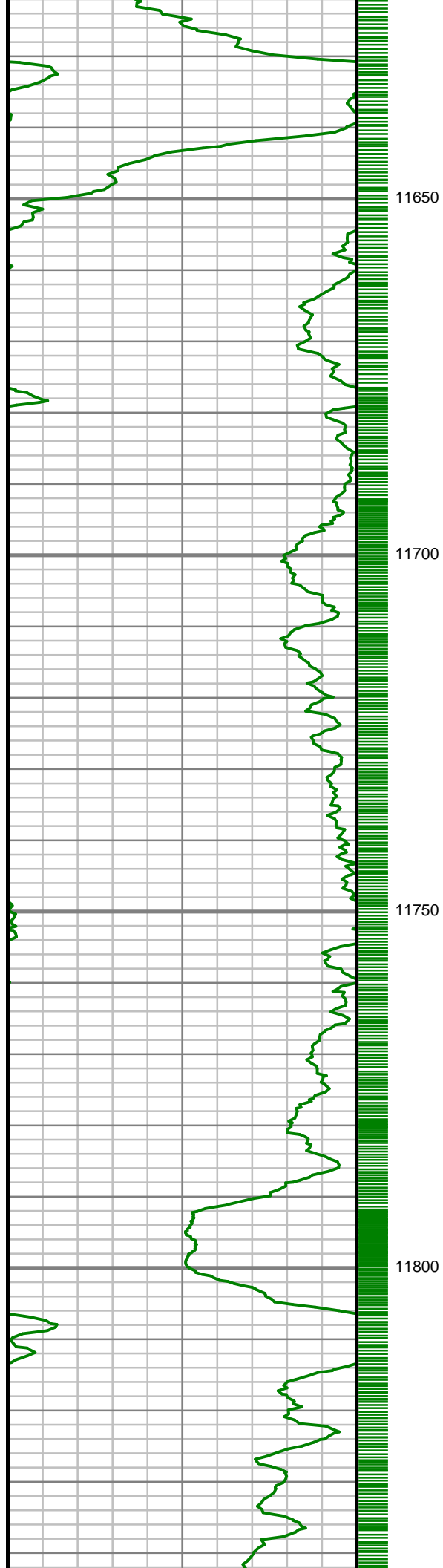


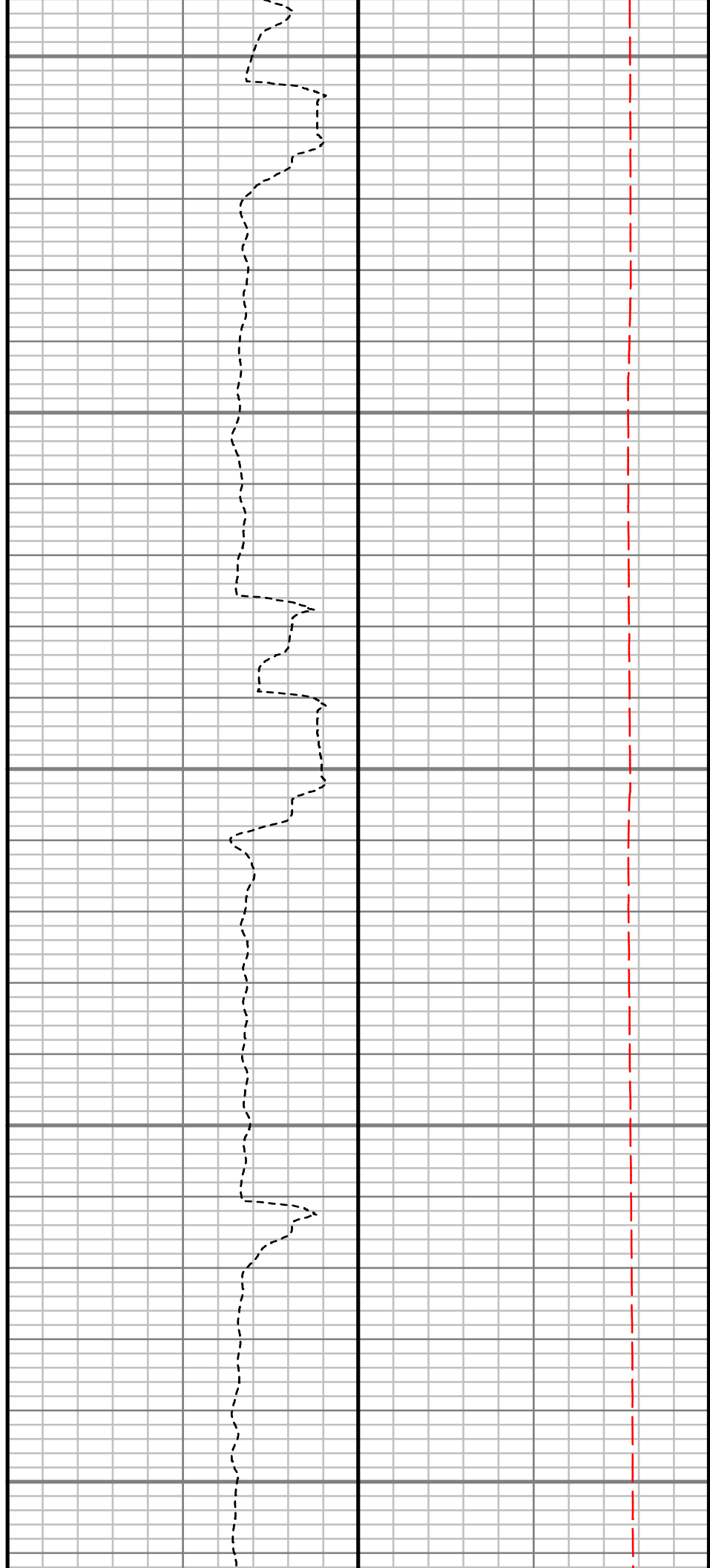
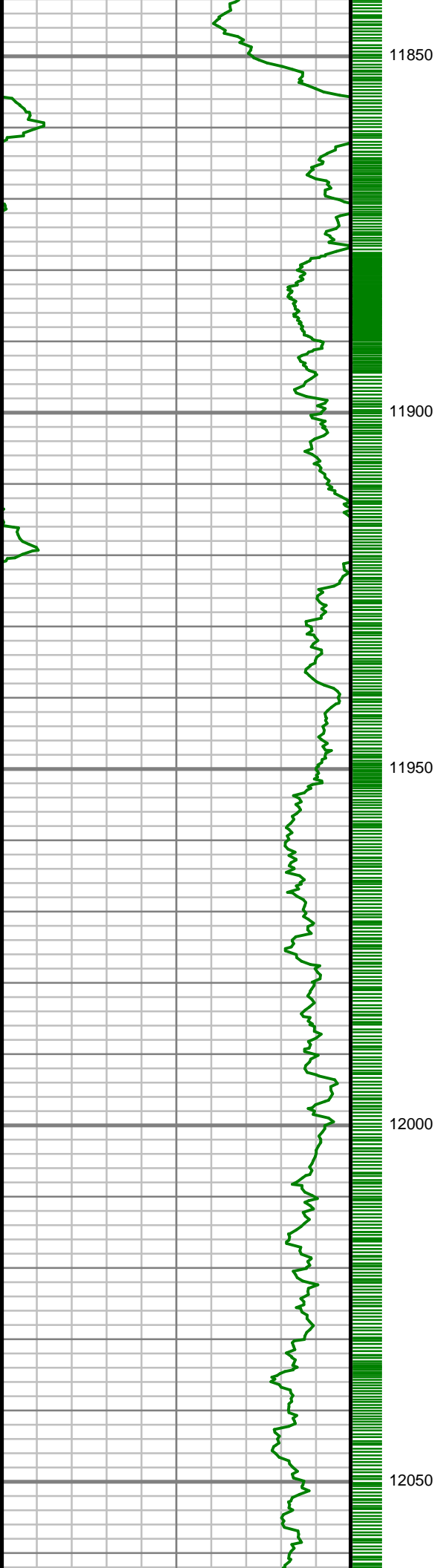




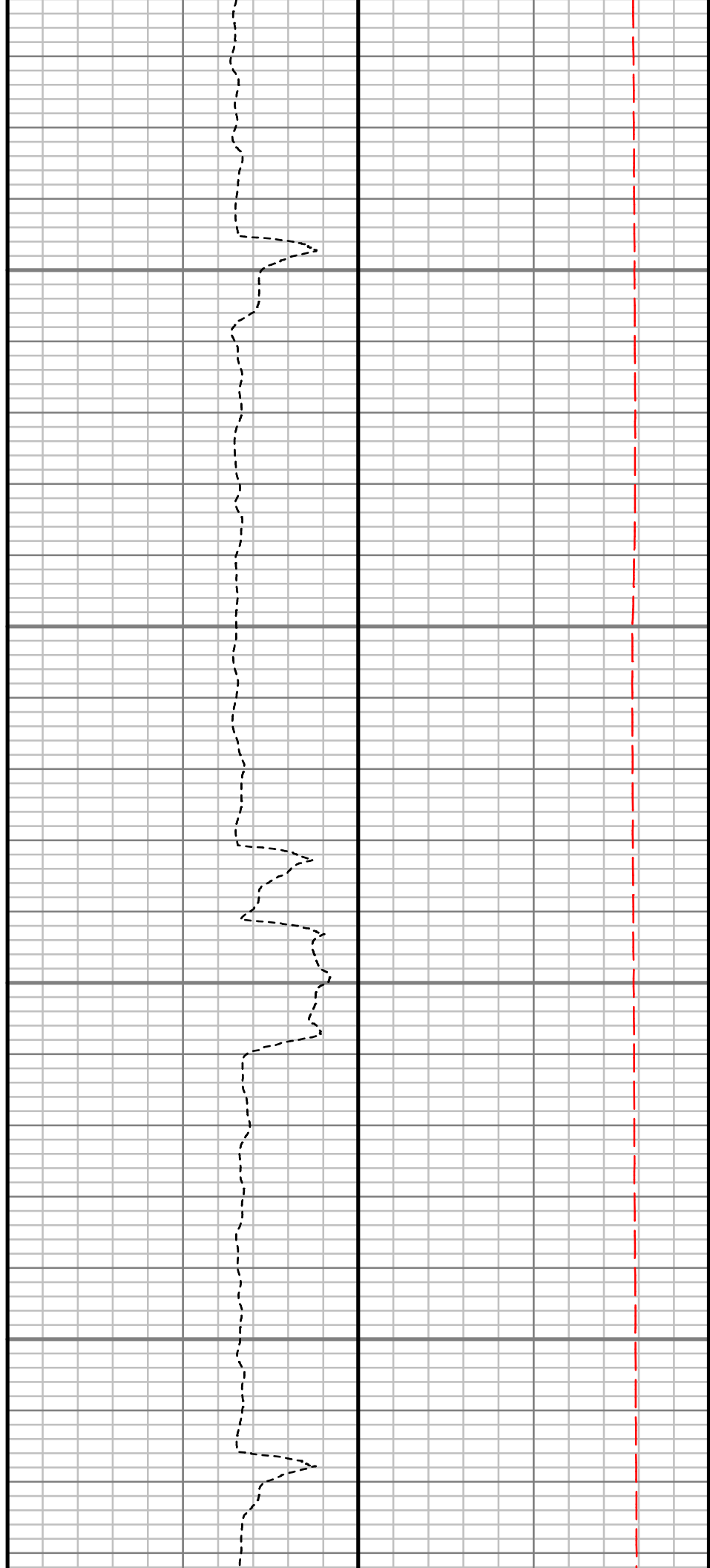
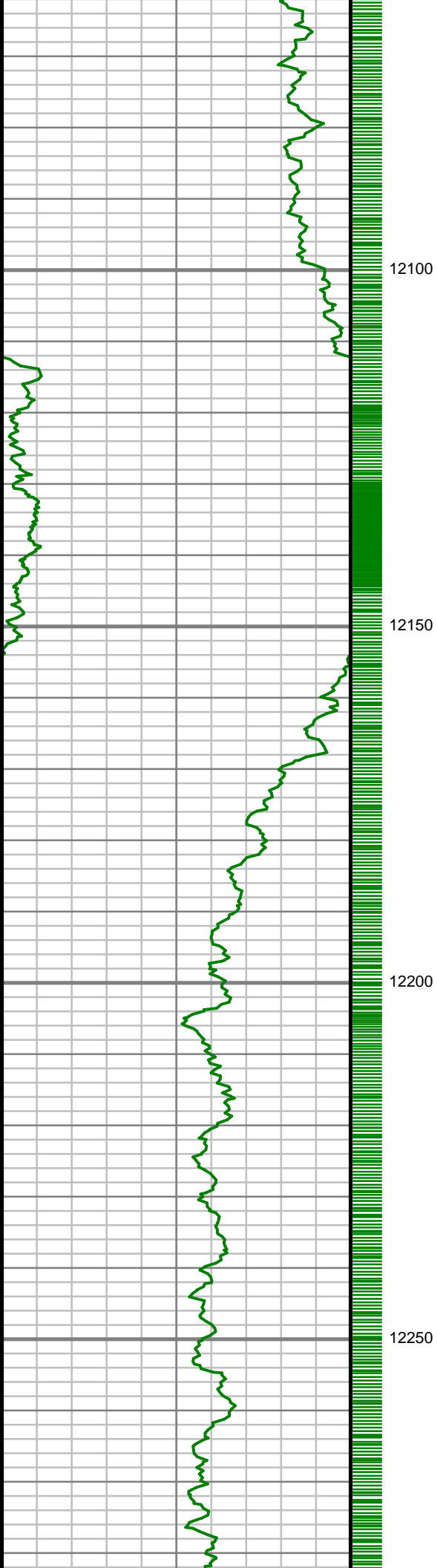


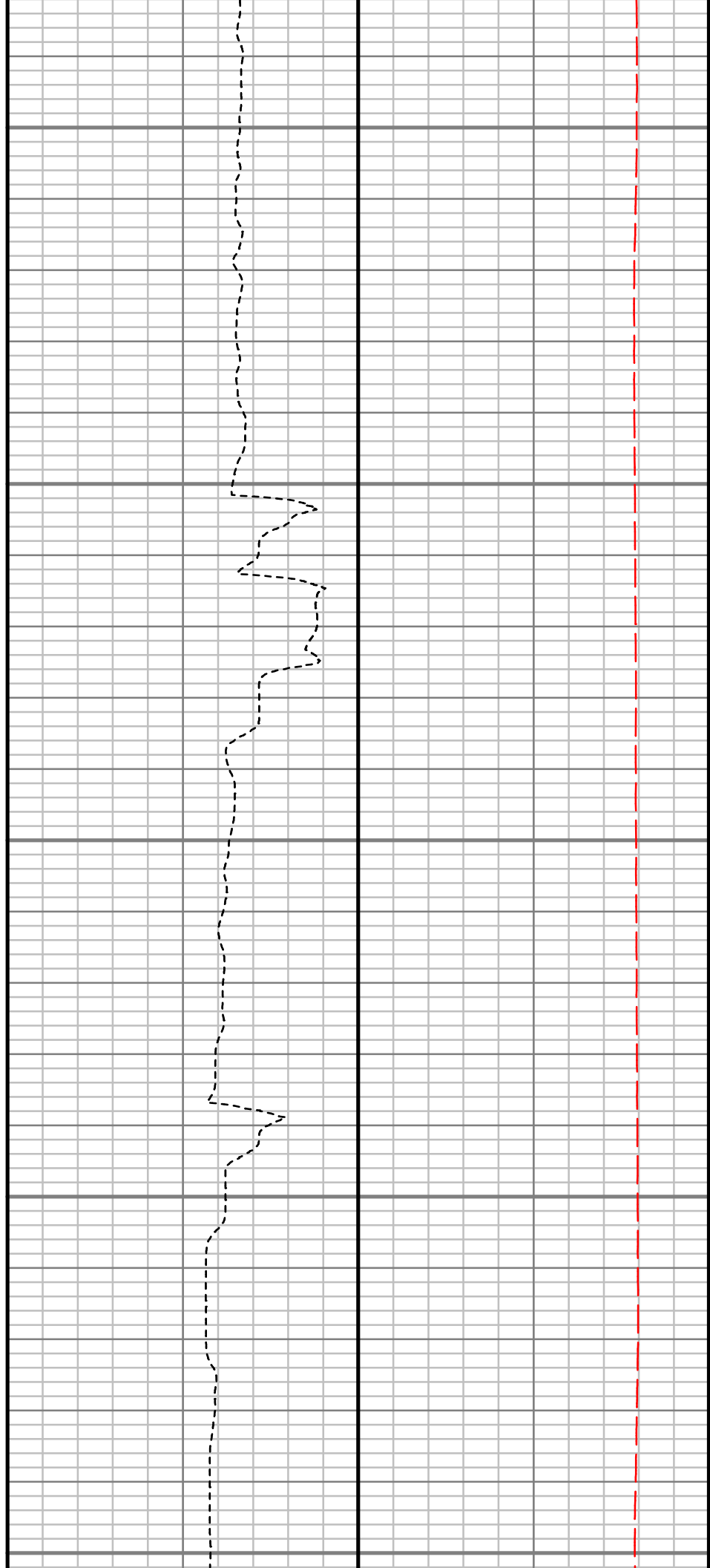
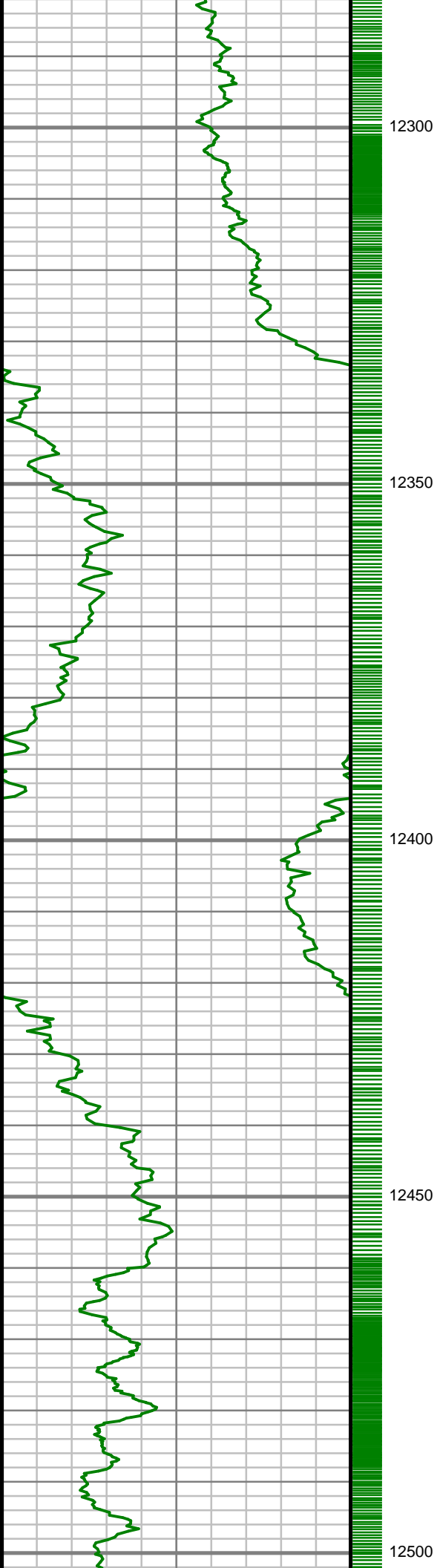


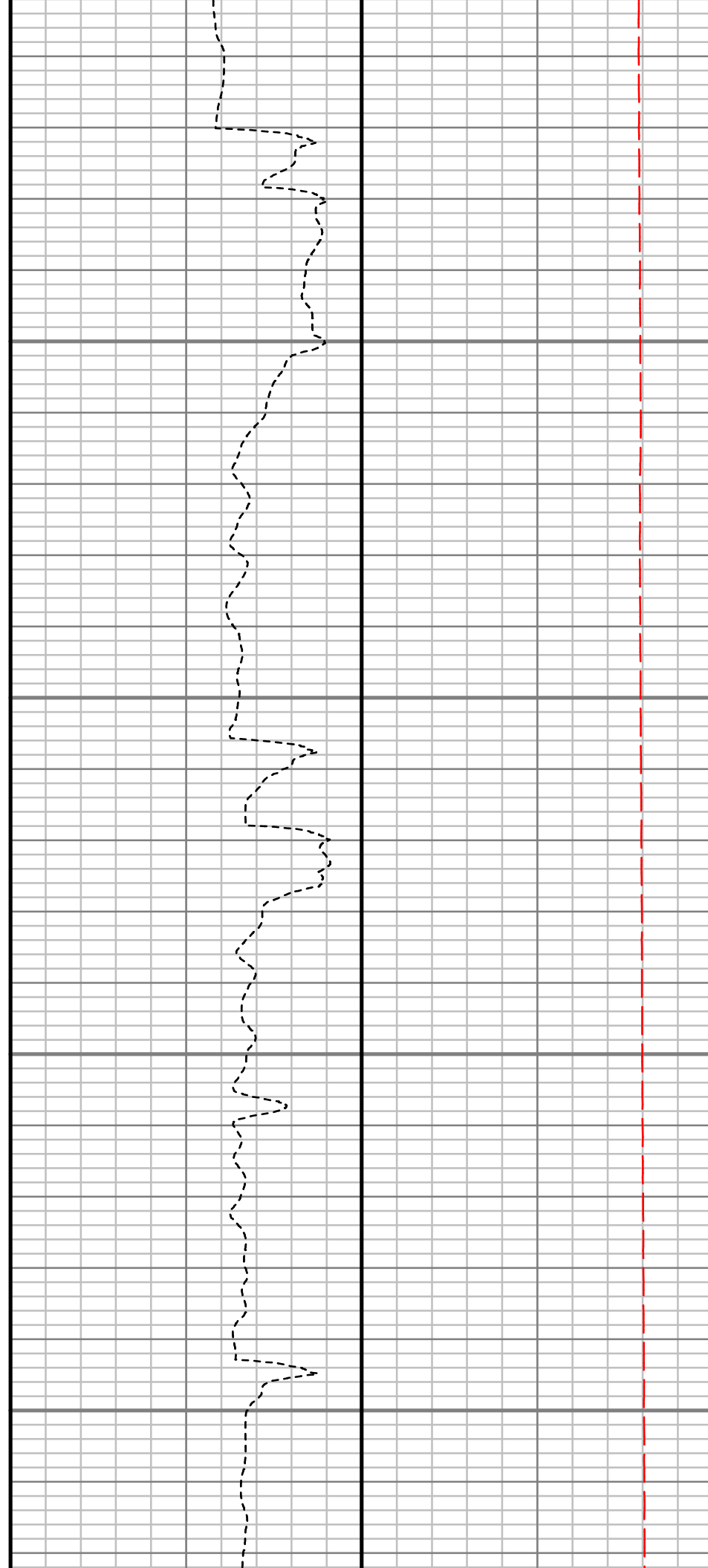
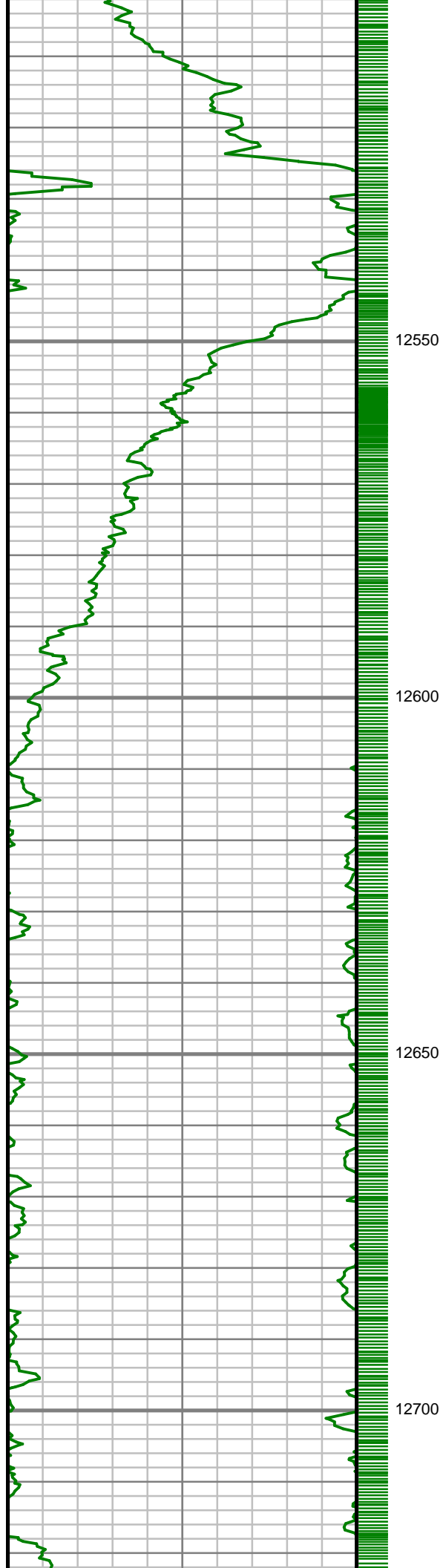


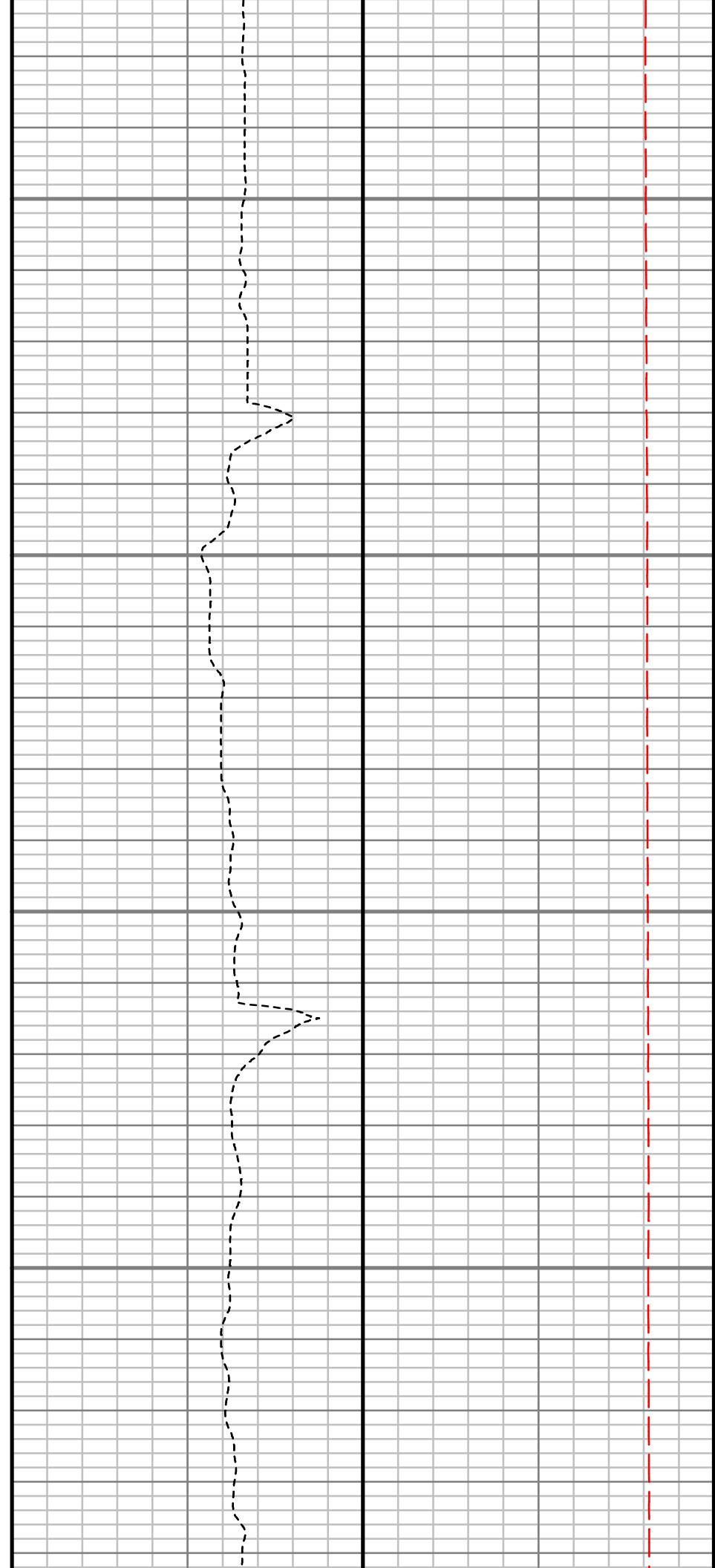
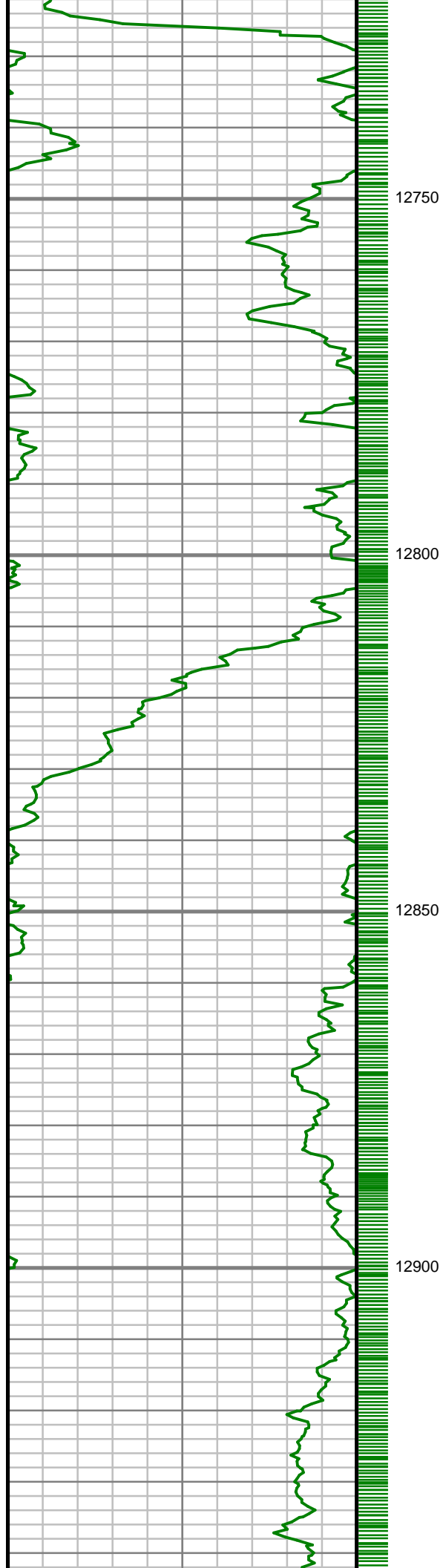


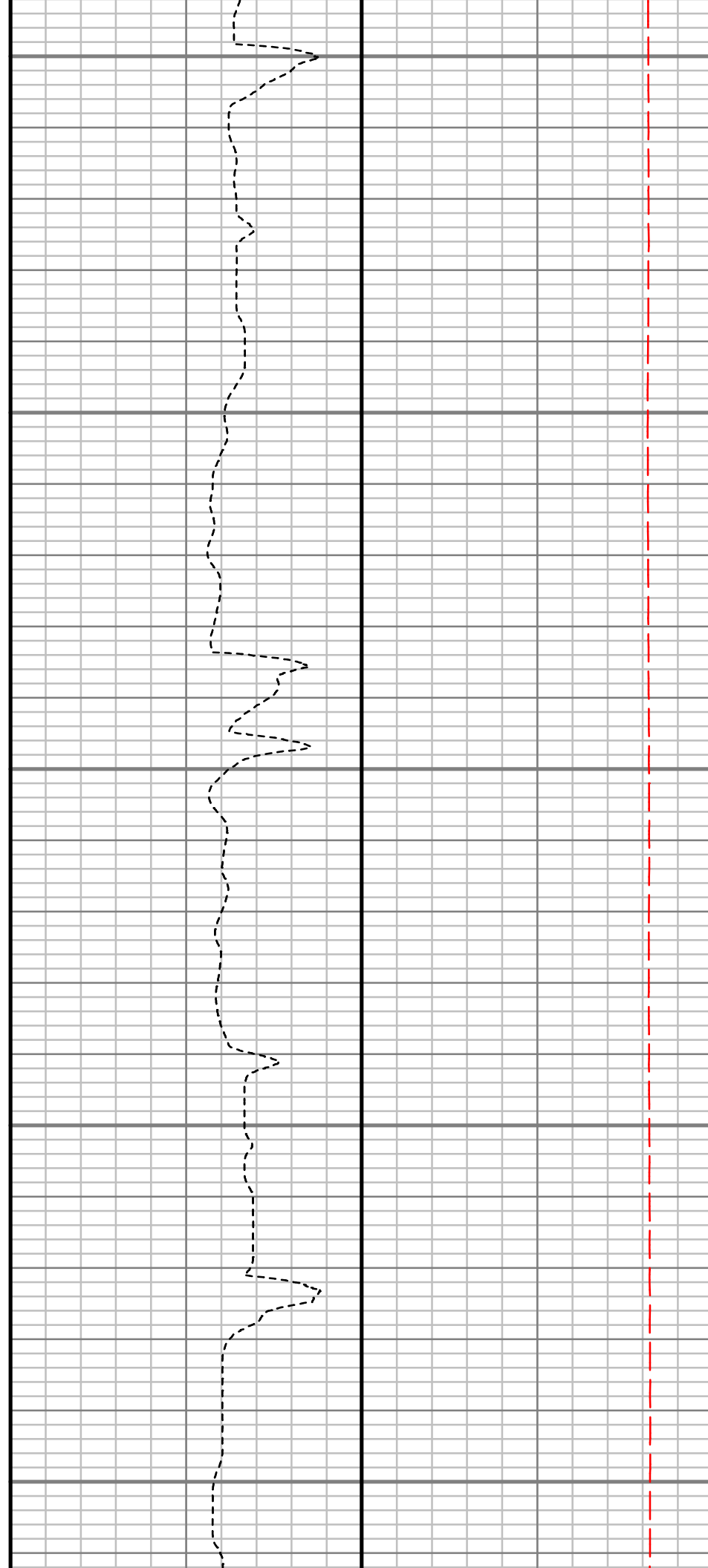
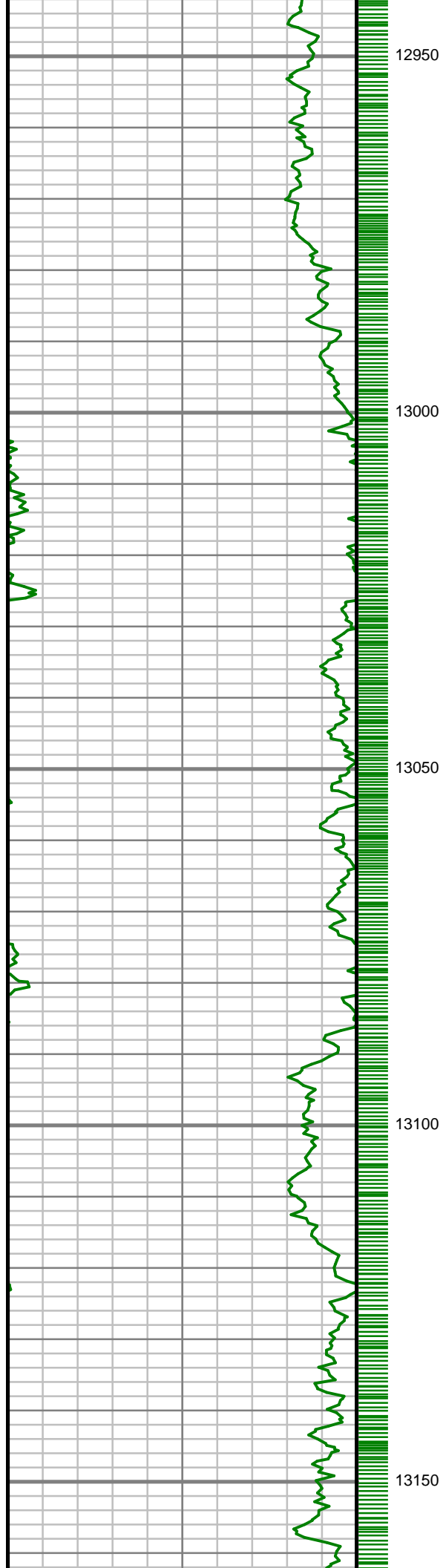


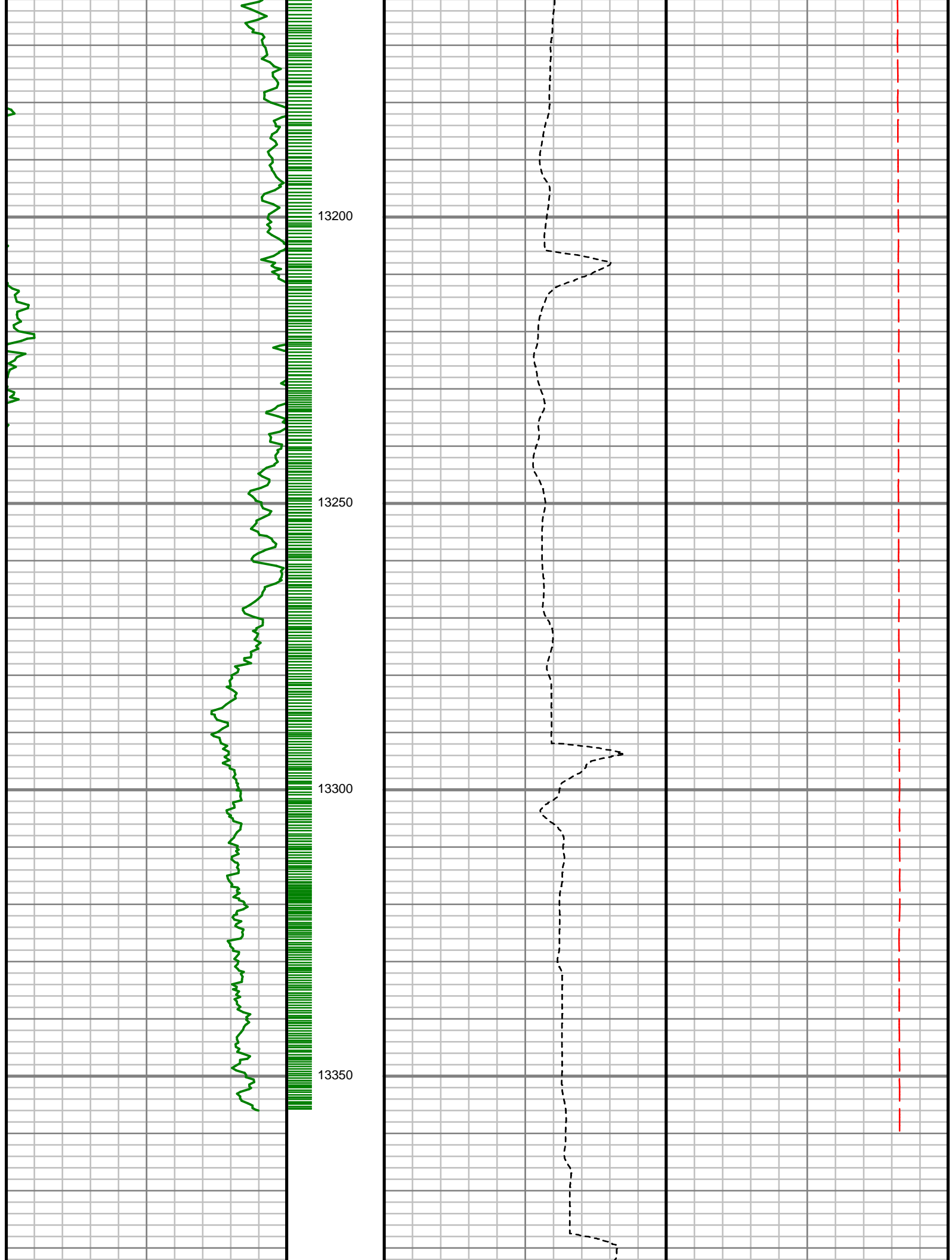










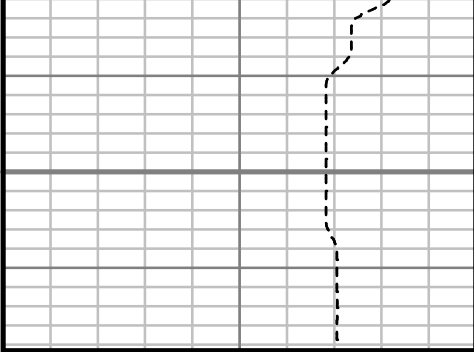




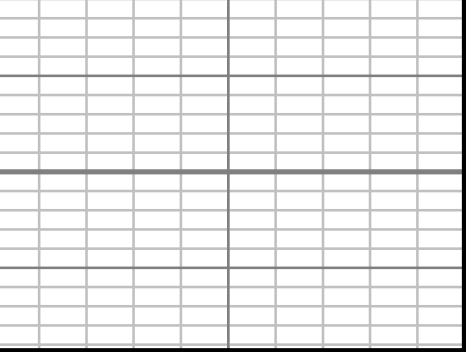
Gamma Ray (GR)	
0	150
Unit = aapi	

13400

MEASURED DEPTH  
1:240 (ft)



Rate of Penetration (ROP)	
1000	0
Unit = ft/hr	



Tool Temperature (TEMP)	
0	300
Unit = °F	

CUSTOMER  
PROJECT  
FIELD

ANADARKO E&P ONSHORE LLC  
YELLOWHAMMER 34N-17HZ  
WATTENBERG

WELL INFORMATION

Lat/Long

40.062689° N, 105.035362° W

Northing

14,549,563.16 ft

Easting

1,630,522.56 ft

UWI

05123454930000

MAP INFORMATION

North Reference  
Grid Correction  
System

True North  
  
Universal Transverse Mercator (US Survey Feet)

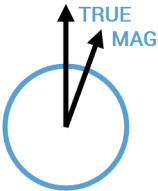
Datum  
Map Zone

North American Datum 1983 (GRS 1980)  
Zone 13N (108 W to 102 W)

VERTICAL SECTION REFERENCE

+N/-S  
+E/-W  
Proposal Direction  
Calculation Method

0 ft  
0 ft  
180.84°  
Minimum Curvature



GEOMAGNETIC REFERENCE INFORMATION

Local Gravity: 999.027 mG [computed]

MD	MODEL	DATE	DECLINATION	MAG TO TRUE
0-5776 ft	MagVAR	26 Dec 2017	8.42°	add 8.42°
5776-13358 ft	MagVAR	26 Dec 2017	8.43°	add 8.43°

WELL NOTES

OPERATORS

J. MEYERS, J. WALSH

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
128.00	0.66	117.88	128.00	0.34	-0.34	0.65	0.52
160.00	0.62	69.89	160.00	0.36	-0.37	0.98	1.63
192.00	0.88	90.81	191.99	0.29	-0.32	1.39	1.17
223.00	0.57	92.30	222.99	0.30	-0.32	1.78	1.00
254.00	0.88	80.88	253.99	0.26	-0.29	2.17	1.10
286.00	0.70	86.15	285.98	0.20	-0.24	2.60	0.61
317.00	0.75	115.15	316.98	0.27	-0.31	2.98	1.18
349.00	1.45	123.42	348.98	0.58	-0.63	3.50	2.24
380.00	0.75	124.82	379.97	0.90	-0.96	4.00	2.26
412.00	0.53	126.32	411.97	1.10	-1.17	4.29	0.69
444.00	1.19	140.73	443.96	1.44	-1.51	4.62	2.15
475.00	1.41	153.39	474.96	2.03	-2.10	4.99	1.16
507.00	2.15	172.11	506.94	2.97	-3.05	5.25	2.91
538.00	3.21	172.37	537.91	4.40	-4.48	5.45	3.42
570.00	4.66	173.43	569.83	6.58	-6.66	5.72	4.54
602.00	5.63	172.81	601.70	9.42	-9.51	6.06	3.04
634.00	6.50	169.47	633.52	12.75	-12.85	6.59	2.93
666.00	6.59	173.34	665.31	16.35	-16.45	7.13	1.41
697.00	7.12	176.15	696.09	20.03	-20.14	7.47	2.02



MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
729.00	6.99	182.22	727.85	23.95	-24.06	7.52	2.36
761.00	7.43	182.30	759.60	27.97	-28.08	7.37	1.38
793.00	7.73	183.62	791.32	32.18	-32.29	7.15	1.08
824.00	8.88	184.32	821.99	36.65	-36.76	6.84	3.72
856.00	9.36	180.81	853.59	41.72	-41.82	6.61	2.30
887.00	9.58	176.50	884.17	46.81	-46.92	6.73	2.39
920.00	10.02	173.95	916.68	52.40	-52.51	7.20	1.87
951.00	10.24	171.76	947.20	57.80	-57.92	7.88	1.43
983.00	11.29	170.17	978.64	63.69	-63.82	8.83	3.41
1015.00	12.57	171.05	1009.95	70.20	-70.35	9.90	4.04
1047.00	12.83	171.23	1041.16	77.13	-77.30	10.99	0.82
1078.00	14.02	173.43	1071.31	84.25	-84.43	11.94	4.18
1110.00	14.50	173.16	1102.33	92.06	-92.26	12.86	1.51
1142.00	14.19	173.87	1133.33	99.93	-100.14	13.76	1.11
1173.00	14.50	173.87	1163.36	107.55	-107.78	14.58	1.00
1205.00	15.56	174.48	1194.27	115.79	-116.03	15.42	3.35
1237.00	16.22	175.80	1225.05	124.51	-124.76	16.16	2.35
1269.00	16.88	176.06	1255.72	133.59	-133.85	16.81	2.08
1301.00	17.36	176.68	1286.30	142.98	-143.25	17.40	1.60
1332.00	17.62	176.50	1315.87	152.28	-152.56	17.96	0.86

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
1364.00	17.93	172.90	1346.34	161.98	-162.28	18.86	3.57
1396.00	18.37	171.84	1376.75	171.84	-172.16	20.18	1.72
1427.00	18.59	171.40	1406.15	181.54	-181.88	21.62	0.84
1459.00	17.36	171.67	1436.59	191.29	-191.65	23.07	3.85
1491.00	16.48	171.67	1467.20	200.48	-200.86	24.42	2.75
1522.00	16.96	171.93	1496.89	209.29	-209.69	25.69	1.57
1554.00	17.49	173.87	1527.46	218.67	-219.09	26.86	2.44
1586.00	17.67	174.66	1557.96	228.27	-228.71	27.83	0.93
1617.00	17.40	173.51	1587.52	237.55	-238.00	28.79	1.42
1649.00	17.23	172.81	1618.07	246.99	-247.45	29.92	0.84
1681.00	16.70	173.60	1648.68	256.24	-256.72	31.03	1.81
1713.00	17.05	172.81	1679.30	265.45	-265.95	32.13	1.31
1744.00	17.80	171.76	1708.88	274.63	-275.15	33.38	2.62
1776.00	18.02	172.90	1739.33	284.36	-284.90	34.69	1.29
1808.00	18.19	171.93	1769.75	294.20	-294.75	36.00	1.08
1830.00	18.28	171.32	1790.64	300.99	-301.57	37.00	0.96
1980.00	17.32	167.92	1933.46	345.95	-346.65	45.23	0.94
2065.00	17.57	169.87	2014.55	370.88	-371.65	50.13	0.75
2150.00	16.89	168.73	2095.74	395.55	-396.40	54.80	0.89
2237.00	16.97	167.01	2178.97	420.24	-421.17	60.12	0.59

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
2322.00	18.70	168.50	2259.88	445.60	-446.61	65.63	2.11
2408.00	16.21	170.75	2341.91	470.89	-471.97	70.31	3.00
2493.00	16.24	172.50	2423.53	494.33	-495.47	73.77	0.58
2578.00	14.77	176.40	2505.44	516.90	-518.07	76.00	2.11
2663.00	15.19	166.60	2587.56	538.50	-539.72	79.26	3.02
2748.00	17.50	163.07	2669.12	561.48	-562.79	85.57	2.96
2833.00	18.06	162.75	2750.06	586.17	-587.60	93.20	0.66
2919.00	17.81	164.44	2831.88	611.46	-613.00	100.68	0.67
3004.00	18.39	165.26	2912.67	636.85	-638.49	107.57	0.75
3089.00	18.65	168.11	2993.27	663.03	-664.77	113.79	1.10
3174.00	19.04	174.05	3073.72	690.06	-691.86	118.02	2.30
3260.00	17.85	181.01	3155.31	717.17	-719.00	119.25	2.91
3344.00	13.79	180.22	3236.11	740.07	-741.89	118.98	4.83
3429.00	10.56	182.78	3319.19	757.99	-759.81	118.57	3.86
3516.00	7.64	184.42	3405.08	771.73	-773.54	117.73	3.36
3601.00	6.79	181.19	3489.41	782.40	-784.20	117.19	1.11
3686.00	5.33	190.13	3573.93	791.32	-793.11	116.39	2.04
3771.00	3.91	199.50	3658.66	797.96	-799.73	114.73	1.88
3856.00	3.56	198.67	3743.48	803.22	-804.96	112.92	0.42
3942.00	3.21	197.78	3829.33	808.06	-809.78	111.33	0.41

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
4027.00	1.38	190.44	3914.26	811.35	-813.05	110.42	2.18
4112.00	0.71	217.90	3999.24	812.77	-814.47	109.91	0.96
4199.00	0.62	73.32	4086.24	813.06	-814.76	110.03	1.45
4284.00	0.65	57.92	4171.23	812.66	-814.38	110.87	0.20
4369.00	0.56	41.16	4256.23	812.09	-813.81	111.55	0.23
4454.00	0.57	228.48	4341.23	812.06	-813.78	111.50	1.33
4539.00	1.89	218.37	4426.21	813.46	-815.16	110.32	1.56
4623.00	2.52	194.18	4510.15	816.35	-818.04	109.00	1.32
4709.00	2.30	198.09	4596.07	819.84	-821.51	108.00	0.31
4794.00	2.08	207.88	4681.01	822.84	-824.50	106.75	0.51
4879.00	1.94	208.08	4765.96	825.49	-827.13	105.36	0.16
4963.00	1.69	218.22	4849.91	827.74	-829.35	103.92	0.48
5049.00	1.40	221.69	4935.88	829.54	-831.13	102.44	0.35
5133.00	1.42	223.65	5019.86	831.08	-832.65	101.04	0.07
5218.00	0.47	226.26	5104.84	832.10	-833.65	100.06	1.12
5303.00	0.51	84.46	5189.84	832.30	-833.86	100.18	1.10
5388.00	0.17	120.07	5274.84	832.32	-833.89	100.67	0.45
5473.00	0.15	293.08	5359.84	832.34	-833.91	100.68	0.38
5558.00	0.47	292.02	5444.84	832.17	-833.73	100.25	0.38
5643.00	0.57	285.83	5529.84	831.94	-833.48	99.51	0.14

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
5729.00	0.62	296.58	5615.83	831.62	-833.16	98.69	0.14
5898.00	0.69	294.95	5784.82	830.81	-832.32	96.95	0.05
5984.00	0.60	304.21	5870.82	830.35	-831.85	96.10	0.16
6069.00	0.47	278.00	5955.81	830.06	-831.55	95.39	0.33
6154.00	0.45	271.93	6040.81	830.01	-831.49	94.71	0.06
6240.00	0.39	193.35	6126.81	830.29	-831.76	94.30	0.62
6325.00	0.81	121.71	6211.80	830.88	-832.36	94.75	0.92
6410.00	0.28	149.08	6296.80	831.37	-832.86	95.37	0.67
6497.00	0.64	136.09	6383.80	831.90	-833.39	95.81	0.42
6583.00	0.85	187.96	6469.79	832.88	-834.38	96.06	0.79
6668.00	0.63	192.98	6554.78	833.96	-835.46	95.87	0.27
6753.00	0.31	241.76	6639.78	834.53	-836.02	95.56	0.57
6838.00	0.17	26.44	6724.78	834.53	-836.02	95.41	0.54
6923.00	0.26	111.95	6809.78	834.49	-835.98	95.64	0.35
7008.00	8.41	173.40	6894.47	840.73	-842.24	96.54	9.75
7093.00	14.47	171.43	6977.74	857.39	-858.93	98.84	7.14
7178.00	19.89	180.69	7058.93	882.35	-883.92	100.25	7.13
7263.00	25.38	180.38	7137.35	915.06	-916.62	99.95	6.46
7348.00	29.92	180.16	7212.63	954.49	-956.05	99.77	5.34
7433.00	37.34	177.89	7283.35	1001.50	-1003.08	100.67	8.86

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
7518.00	44.37	176.68	7347.60	1056.96	-1058.58	103.34	8.32
7603.00	50.60	175.56	7405.02	1119.36	-1121.06	107.61	7.39
7689.00	56.13	177.56	7456.32	1188.15	-1189.92	111.70	6.70
7774.00	59.48	178.83	7501.60	1260.00	-1261.80	113.95	4.14
7859.00	63.66	179.68	7542.05	1334.70	-1336.53	114.91	5.00
7945.00	66.12	180.52	7578.54	1412.56	-1414.40	114.77	3.00
8029.00	68.79	179.59	7610.74	1490.13	-1491.97	114.70	3.34
8115.00	73.07	180.64	7638.83	1571.38	-1573.23	114.53	5.11
8200.00	76.10	181.77	7661.42	1653.32	-1655.15	112.80	3.79
8285.00	80.86	183.60	7678.39	1736.53	-1738.32	108.89	5.98
8370.00	86.95	184.89	7687.41	1820.86	-1822.56	102.63	7.33
8455.00	87.01	184.70	7691.88	1905.54	-1907.15	95.54	0.23
8541.00	87.12	184.42	7696.29	1991.25	-1992.76	88.71	0.35
8626.00	87.12	184.28	7700.56	2075.98	-2077.41	82.27	0.16
8711.00	86.32	183.96	7705.43	2160.70	-2162.05	76.17	1.02
8797.00	88.69	182.00	7709.17	2246.55	-2247.84	71.71	3.58
8882.00	89.53	181.05	7710.49	2331.53	-2332.80	69.45	1.49
8967.00	91.91	179.86	7709.42	2416.51	-2417.78	68.78	3.13
9052.00	92.48	179.31	7706.16	2501.43	-2502.72	69.39	0.93
9138.00	92.28	178.64	7702.59	2587.31	-2588.63	70.93	0.80

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
9222.00	92.04	180.27	7699.42	2671.22	-2672.56	71.73	1.95
9308.00	89.97	179.85	7697.91	2757.20	-2758.54	71.64	2.46
9394.00	89.36	178.70	7698.42	2843.16	-2844.53	72.73	1.50
9478.00	89.03	178.38	7699.59	2927.09	-2928.50	74.86	0.55
9562.00	88.90	177.82	7701.12	3010.98	-3012.44	77.64	0.69
9649.00	88.73	177.19	7702.92	3097.81	-3099.34	81.42	0.75
9734.00	89.53	179.32	7704.21	3182.71	-3184.28	84.01	2.67
9821.00	89.06	178.70	7705.28	3269.66	-3271.26	85.51	0.89
9905.00	89.03	179.98	7706.68	3353.62	-3355.24	86.48	1.53
9991.00	88.69	181.32	7708.39	3439.60	-3441.22	85.50	1.60
10076.00	88.63	181.25	7710.38	3524.57	-3526.17	83.60	0.11
10160.00	87.58	180.28	7713.16	3608.52	-3610.12	82.48	1.69
10247.00	89.20	180.24	7715.60	3695.48	-3697.08	82.08	1.85
10332.00	88.09	179.25	7717.61	3780.44	-3782.05	82.47	1.75
10417.00	88.56	178.84	7720.09	3865.36	-3867.00	83.88	0.73
10501.00	88.69	178.83	7722.11	3949.28	-3950.96	85.58	0.16
10586.00	88.96	181.25	7723.85	4034.25	-4035.94	85.52	2.86
10671.00	89.53	181.04	7724.96	4119.24	-4120.91	83.83	0.71
10756.00	89.30	180.60	7725.83	4204.24	-4205.90	82.61	0.59
10840.00	89.63	179.92	7726.62	4288.23	-4289.90	82.23	0.90

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
10927.00	91.14	181.34	7726.04	4375.22	-4376.88	81.28	2.38
11012.00	92.08	181.61	7723.65	4460.18	-4461.82	79.10	1.15
11098.00	92.34	181.05	7720.33	4546.11	-4547.73	77.10	0.72
11183.00	91.44	182.08	7717.52	4631.06	-4632.65	74.77	1.61
11268.00	90.77	179.60	7715.88	4716.04	-4717.62	73.52	3.03
11353.00	90.17	177.81	7715.19	4800.97	-4802.59	75.45	2.22
11438.00	90.57	180.90	7714.64	4885.93	-4887.58	76.41	3.66
11523.00	90.57	181.19	7713.80	4970.93	-4972.56	74.86	0.34
11608.00	91.01	181.31	7712.63	5055.91	-5057.53	73.01	0.53
11693.00	91.41	181.53	7710.84	5140.89	-5142.48	70.90	0.54
11780.00	90.37	180.63	7709.49	5227.88	-5229.46	69.26	1.58
11866.00	91.14	179.68	7708.36	5313.86	-5315.45	69.03	1.43
11951.00	90.60	180.62	7707.07	5398.85	-5400.43	68.80	1.28
12035.00	90.30	180.33	7706.40	5482.84	-5484.43	68.11	0.50
12120.00	89.77	179.64	7706.35	5567.83	-5569.43	68.13	1.03
12205.00	89.43	181.07	7706.95	5652.82	-5654.42	67.60	1.74
12290.00	88.96	181.11	7708.14	5737.81	-5739.40	65.98	0.55
12375.00	89.26	181.40	7709.46	5822.80	-5824.37	64.12	0.49
12460.00	88.69	181.10	7710.97	5907.79	-5909.33	62.27	0.76
12546.00	89.36	182.64	7712.43	5993.76	-5995.27	59.46	1.95

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
12632.00	91.04	183.39	7712.13	6079.69	-6081.15	54.95	2.13
12718.00	90.80	183.27	7710.75	6165.60	-6166.99	49.96	0.30
12803.00	90.03	183.02	7710.13	6250.53	-6251.86	45.29	0.95
12888.00	89.87	182.85	7710.20	6335.47	-6336.75	40.94	0.28
12973.00	89.73	183.05	7710.50	6420.41	-6421.64	36.56	0.29
13060.00	89.20	182.19	7711.31	6507.36	-6508.54	32.58	1.17
13145.00	89.10	182.46	7712.58	6592.33	-6593.46	29.13	0.34
13232.00	88.86	182.30	7714.13	6679.28	-6680.37	25.52	0.33
13317.00	88.89	182.44	7715.79	6764.23	-6765.28	22.01	0.16
13358.00	88.83	182.54	7716.61	6805.21	-6806.24	20.23	0.31

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

5" = 100' MD