

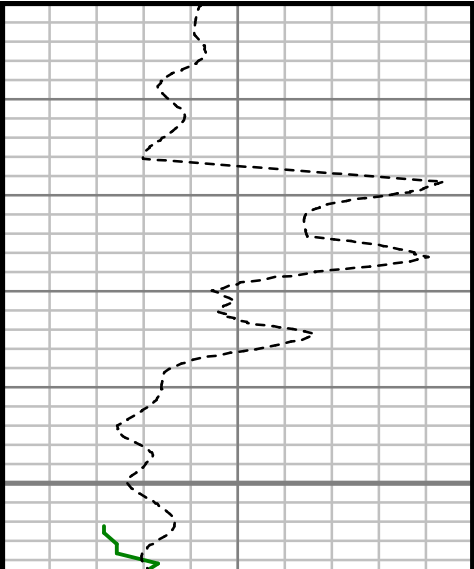
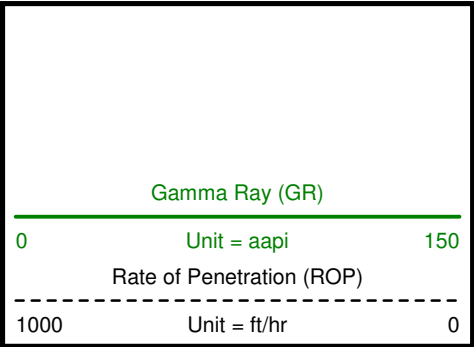
5" = 100' MD

COMPANY : BILL BARRETT CORP.  WELL : ANSCHUTZ WILLIAMS 5-61-27-0108BNB  FIELD : WATTENBERG  COUNTY : WELD  STATE : COLORADO  COUNTRY : U.S.A.  UWI : 05-123-45704										WELL LOCATION  LAT:40°22'35.018"N LONG:104°12'12.960"W  N:1382600.98 ft E:3361173.68 ft  SEC:27 TWP:5N RANGE:61W										OTHER SERVICES  DIRECTIONAL  ROP									
DEPTH REF. : RKB  REF. HEIGHT : 16.500 ft  GROUND LEVEL : 4621.600 ft										RKB to Ground Level  G.I. to MEAN SEA LEVEL																			
BOREHOLE RECORD															DEVIATION RECORD														
HOLE SIZE in					FROM ft					TO ft					INCLINATION deg					FROM ft					TO ft				
12.75					0					990					0 - 2					0					990				
8.75					990					6542					2 - 28					990					2615				
6.125					6542					16329					28 - 0					2615					5708				
															0 - 90					5708					6529				
															90 +/- 3					6529					16329				
CASING RECORD																													
CASING SIZE in					FROM ft					TO ft																			
9.625					0					971																			
7					971					6527																			
DRILLING CO.: CADE DRILLING  RIG: 24  LWD UNIT NO.: KIT PRT PBDISTRICT: CASPER  SPUD DATE: 1/12/2018  LWD START DATE: 1/14/2018  LWD END DATE: 1/20/2018															DEPTH: 990 ft  DEPTH: 16279 ft  TOTAL DEPTH: 16329 ft														

Run Data						
RUN NUMBER	1	2	3			
START DATE	1/13/2018	1/14/2018	1/16/2018			
START TIME	10:55	15:59	01:38			
END DATE	1/13/2018	1/15/2018	1/20/2018			
END TIME	16:44	23:15	12:00			
DEPTH IN (ft)	96	990	6542			
DEPTH OUT (ft)	990	6542	16329			
LOG TOP (ft)	-	990	6506			
LOG BOTTOM (ft)	-	6506	16279			
HOLE SIZE (in)	13.25	8.5	6.125			
MUD DATA @ (ft)	-	5774	14798			
MUD TYPE	FRESH WATER	WATER BASED	WATER BASED			
DENSITY (lb / gal)	-	9.95	9.2			
VISCOSITY (s / qt)	-	14	30			
pH	-	8.5	7.1			
FLUID LOSS (cm3 / 30)	-	-	-			
SALINITY (ppm)	-	650	400			
Rm (ohmm @ deg F)	-	-	-			
Rmf (ohmm @ deg F)	-	-	-			
MAX TEMP (deg F)	81	110	225			
Rm @ MAX TEMP (ohmm)	-	-	-			
LWD ENGINEER #1	S. JOHNSON	S. JOHNSON	M. POTTER			
LWD ENGINEER #2	M. POTTER	M. POTTER	S. GRAY			
LWD ENGINEER #3	-	-	-			
LOG WITNESS #1	D. MOORE	D. MOORE	D. MOORE			
LOG WITNESS #2	-	-	-			

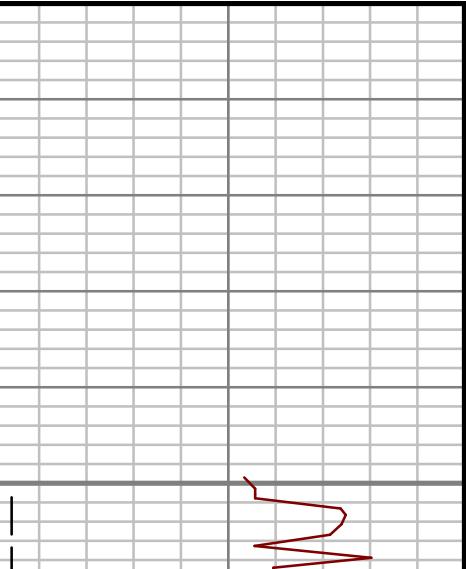
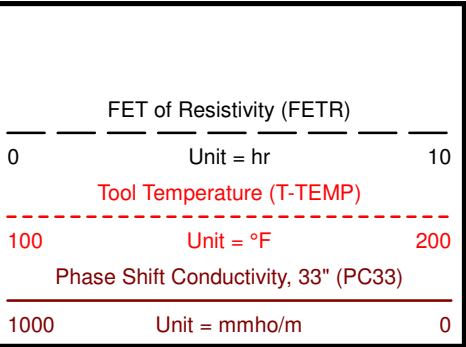
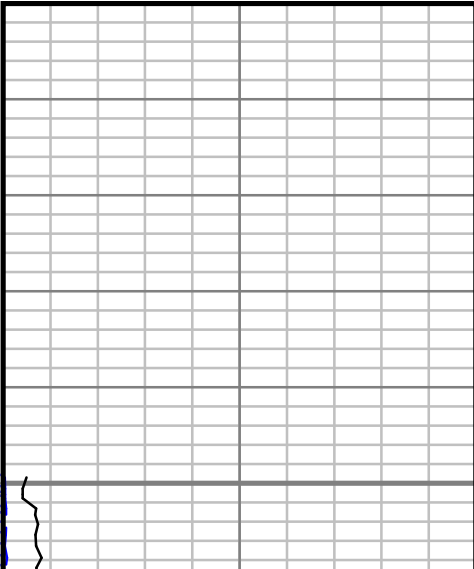
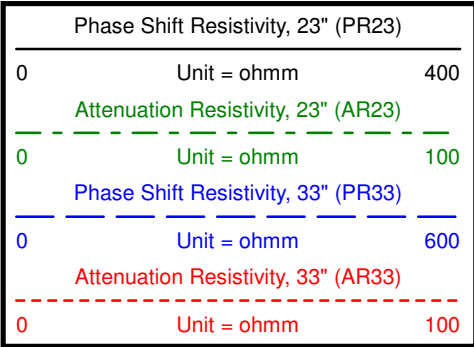
Remarks	
BILL BARRETT CORP. PRODUCTION AFE# 19821D	
SCIENTIFIC DRILLING INTERNATIONAL JOB# OP.007330	
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.	
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO PHASE SHIFT RESISTIVITY, 23" CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO ATTENUATION RESISTIVITY, 23" CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO PHASE SHIFT RESISTIVITY, 33" CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO ATTENUATION RESISTIVITY, 33" CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO TOOL TEMPERATURE CURVE	
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO PHASE SHIFT CONDUCTIVITY, 33" CURVE	
MNEMONICS LIST:	
GR = GAMMA RAY	AR33 = ATTENUATION RESISTIVITY, 33"
ROP = RATE OF PENETRATION	FETR = FET OF RESISTIVITY
PR23 = PHASE SHIFT RESISTIVITY, 23"	T-TEMP = TOOL TEMPERATURE
AR23 = ATTENUATION RESISTIVITY, 23"	PC33 = PHASE SHIFT CONDUCTIVITY, 33"
PR33 = PHASE SHIFT RESISTIVITY, 33"	

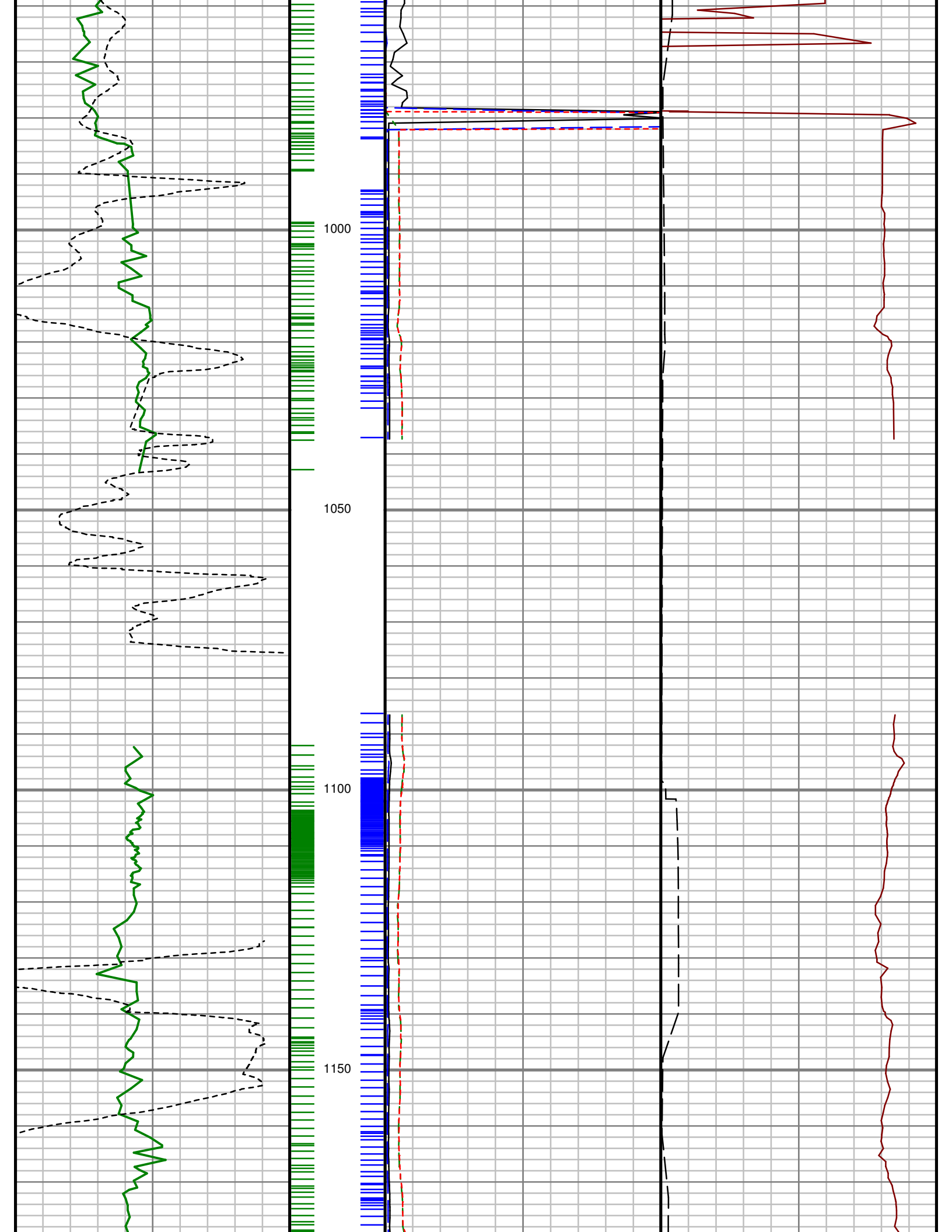
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

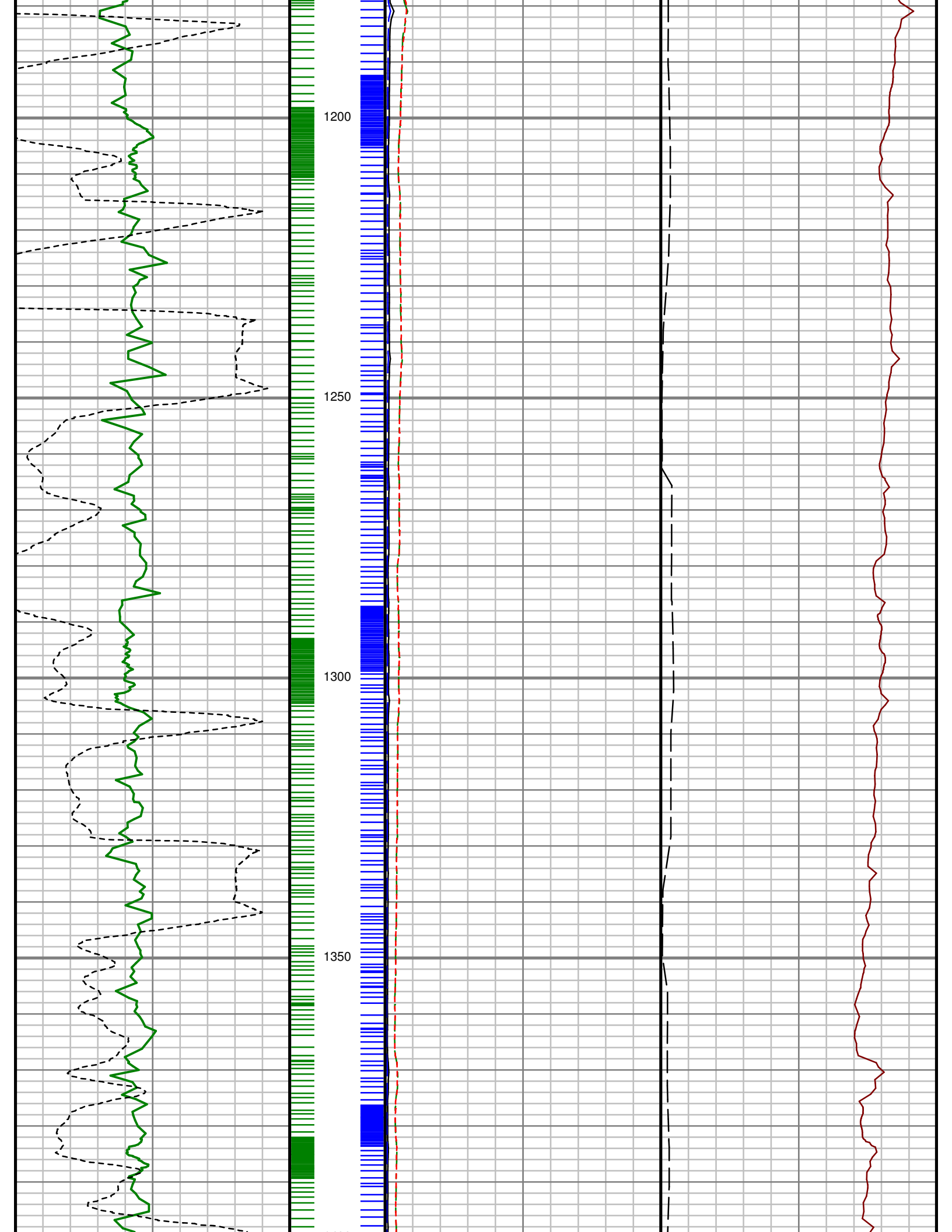


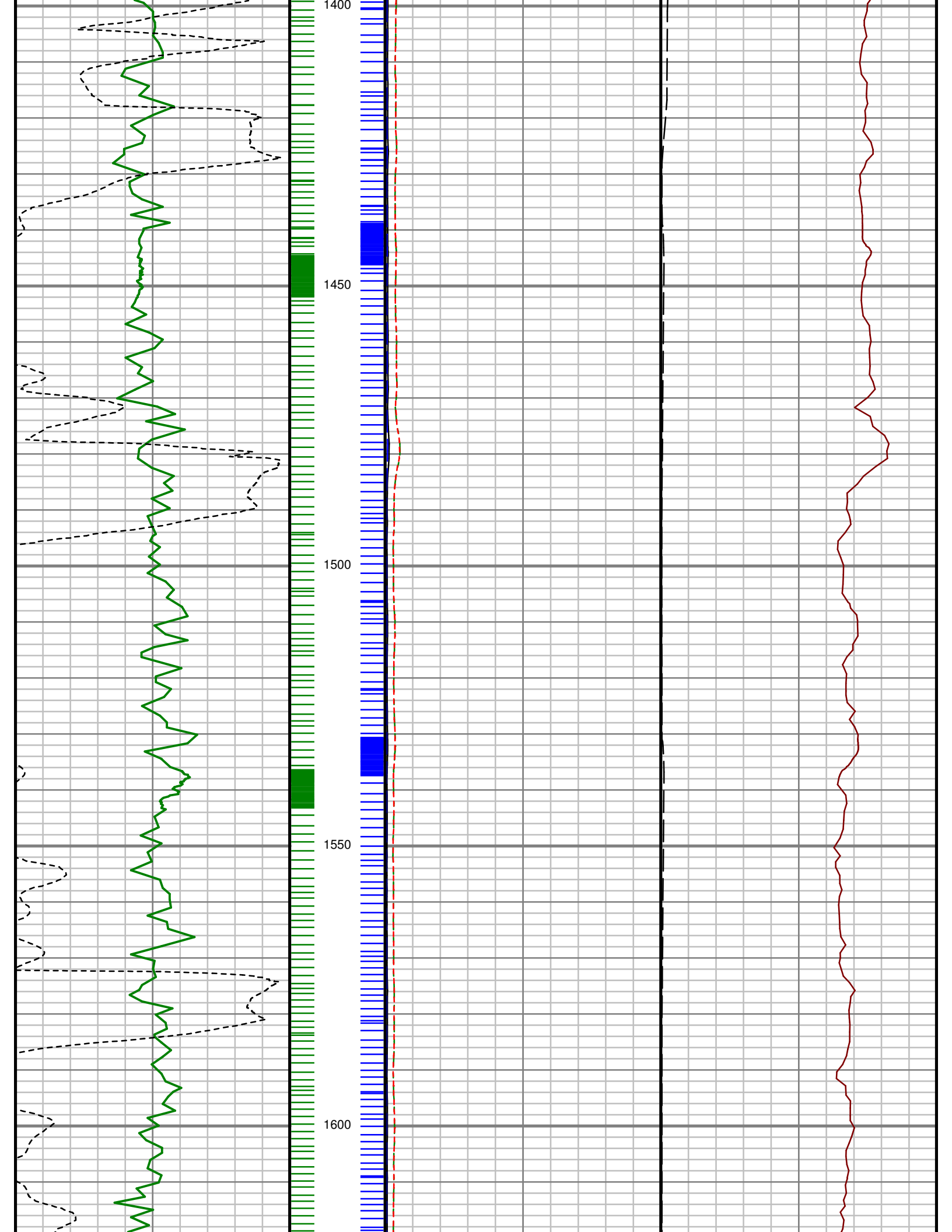
MEASURED DEPTH  
1:240 (ft)

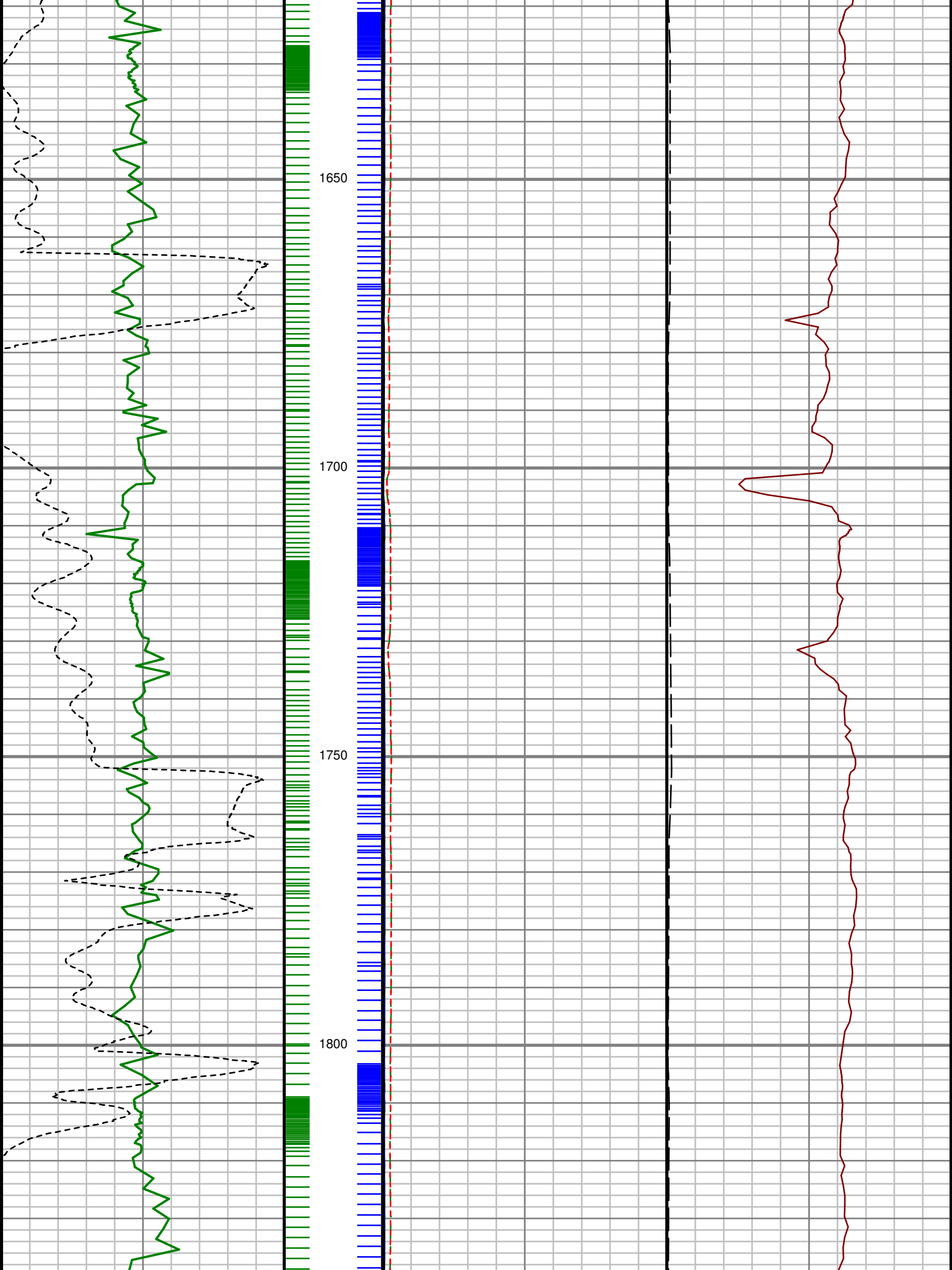
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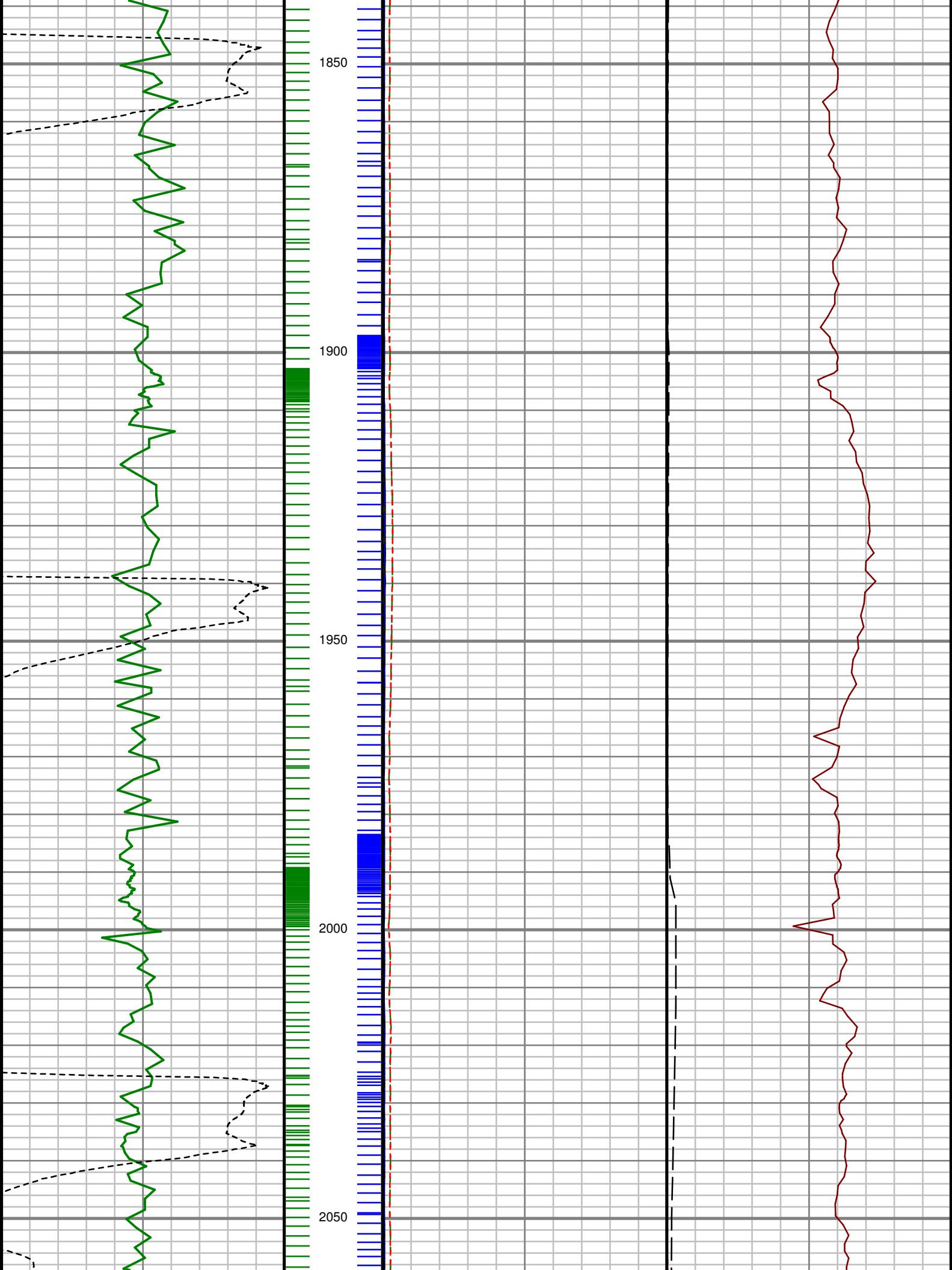


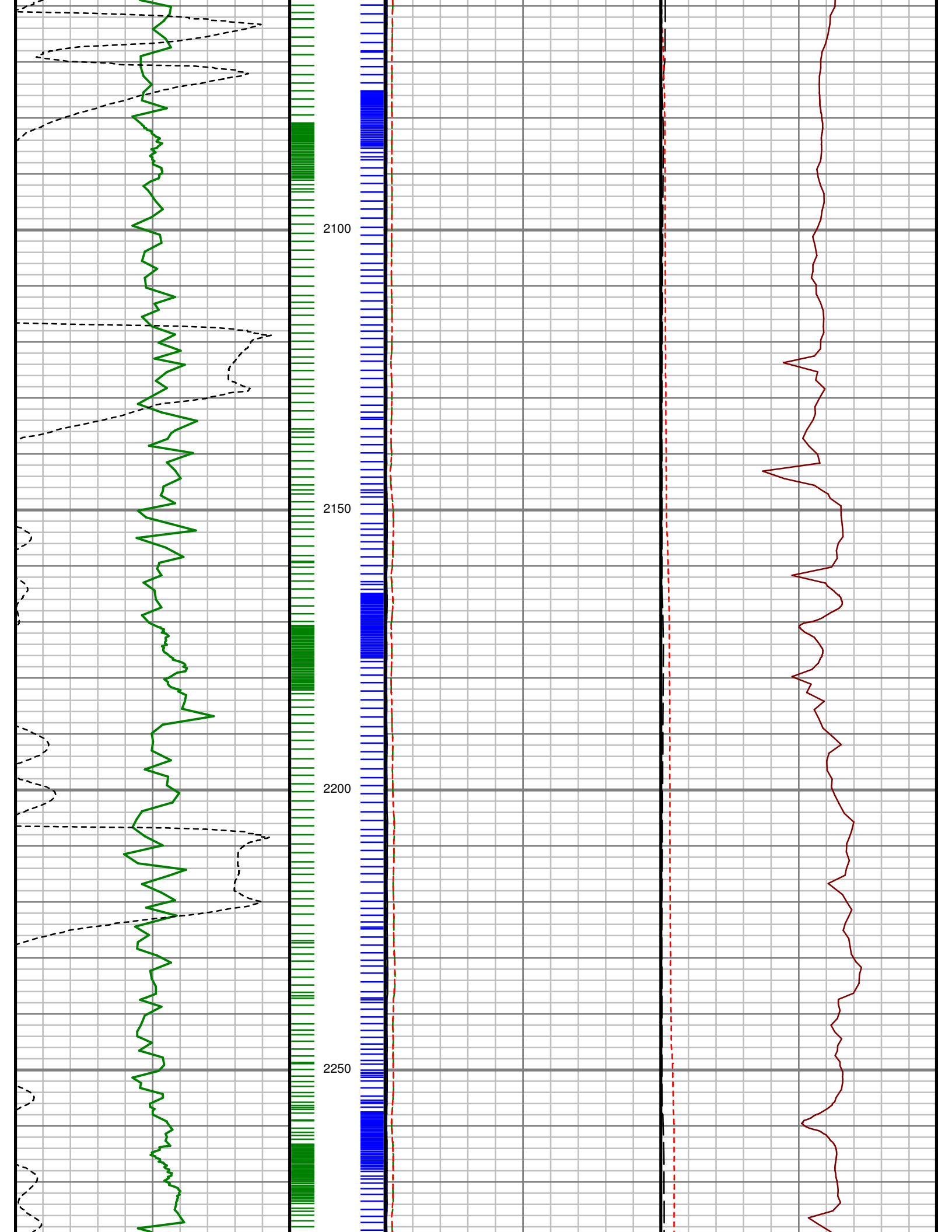




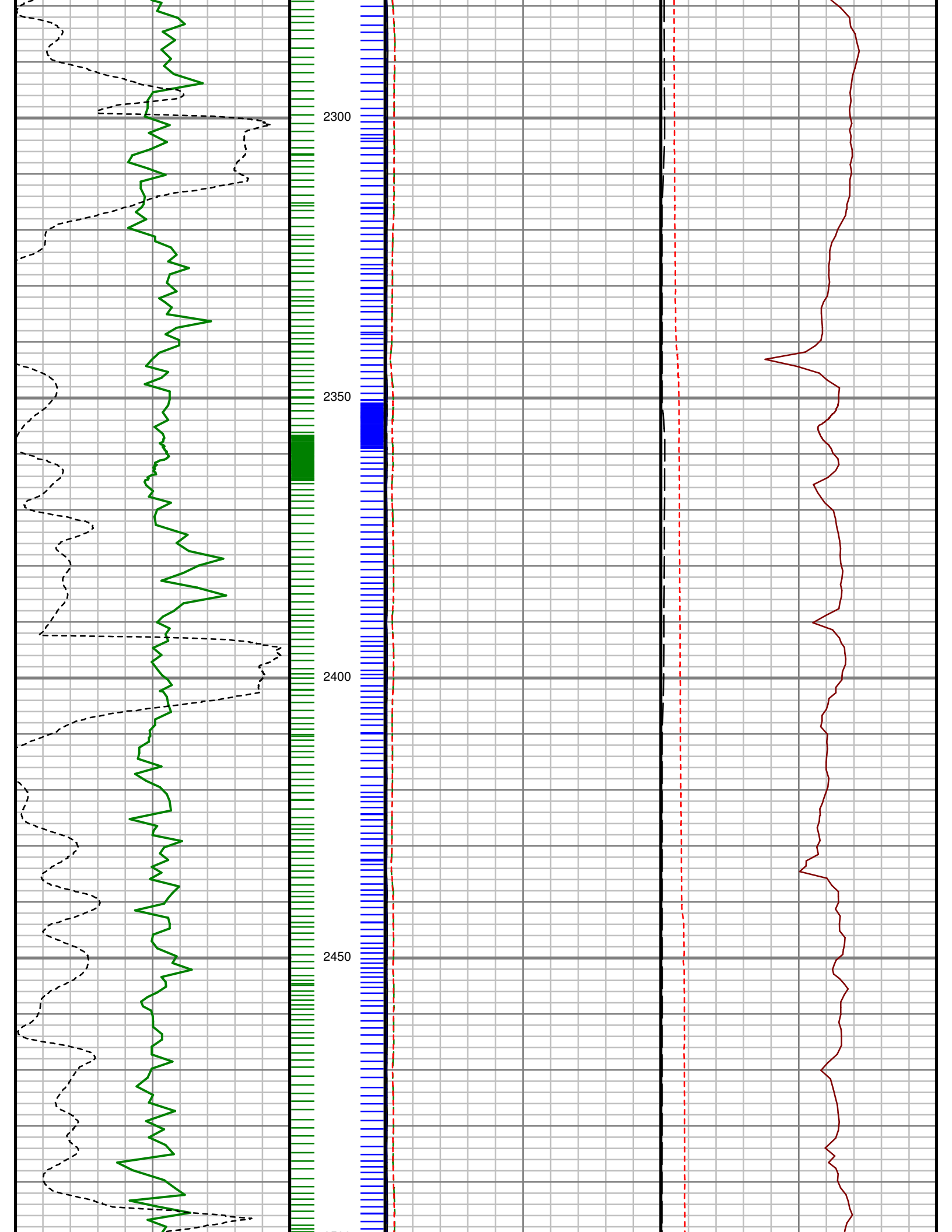


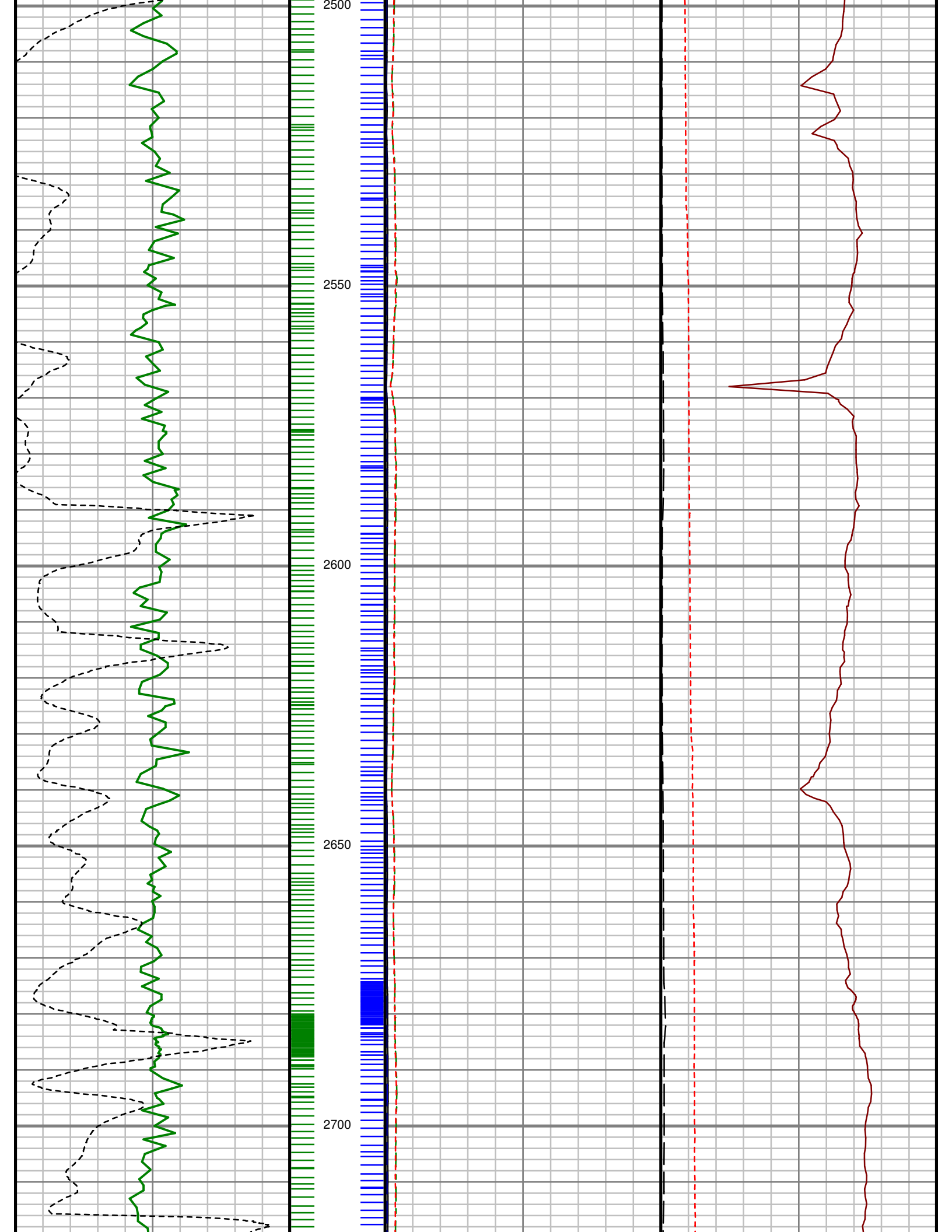


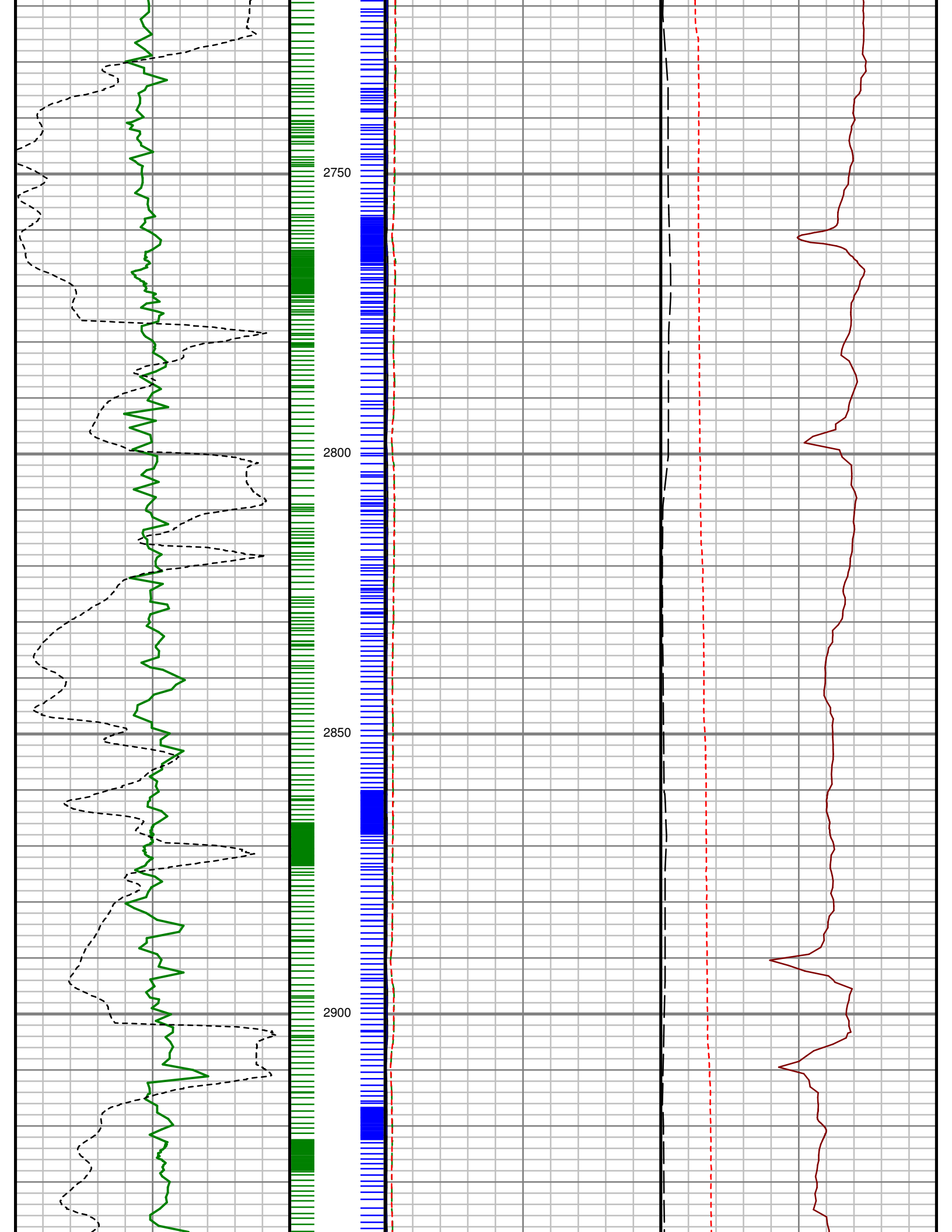


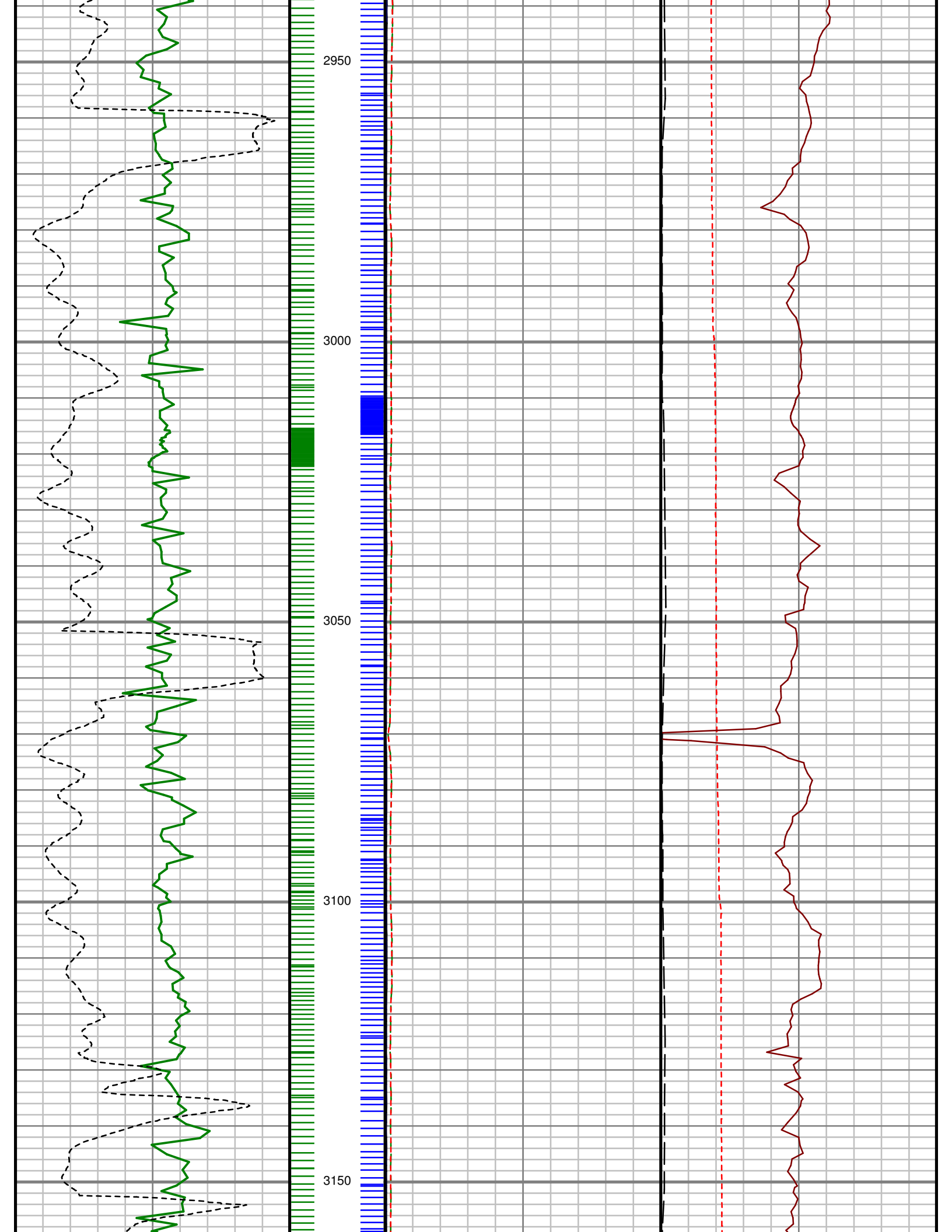


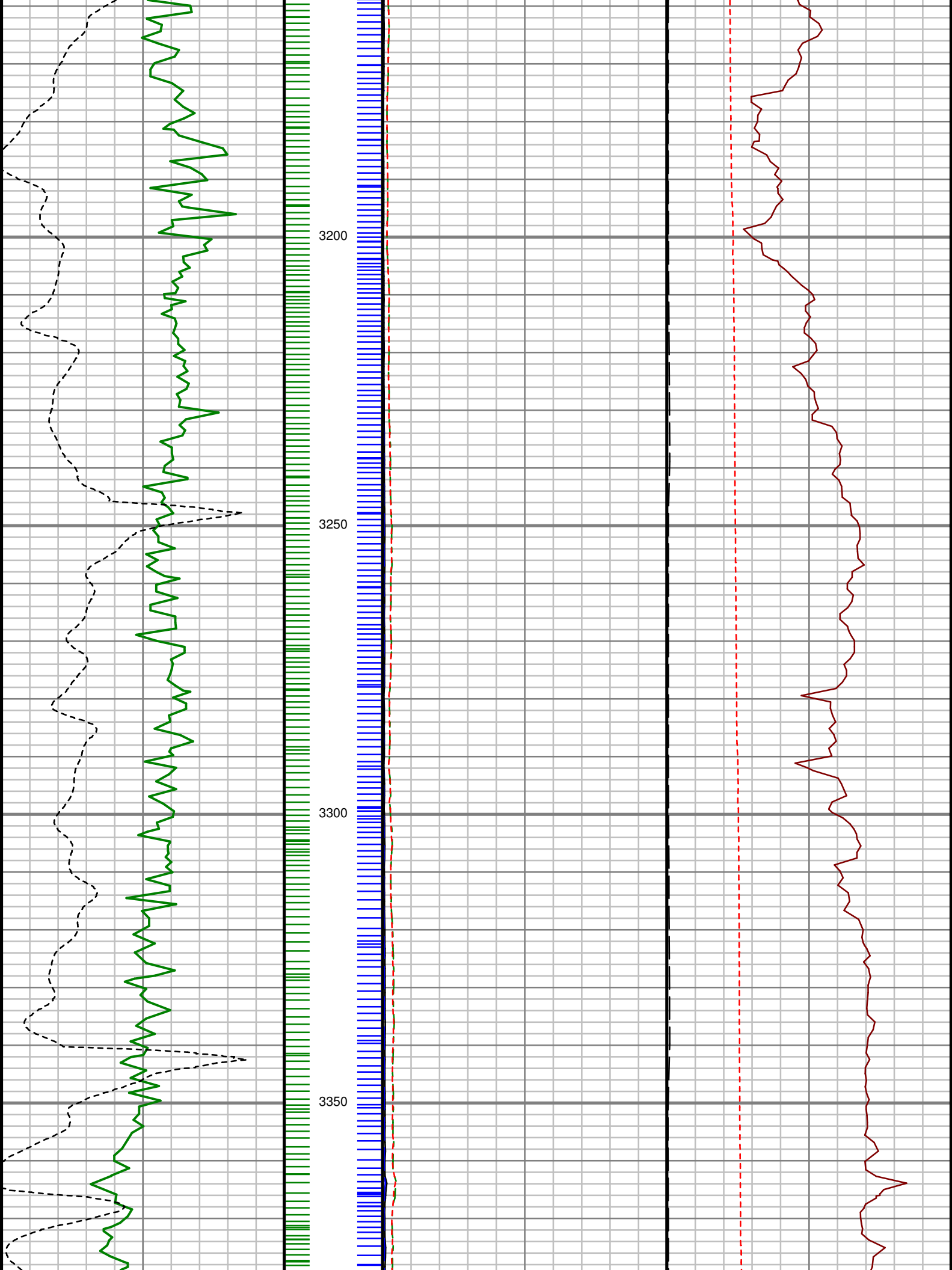


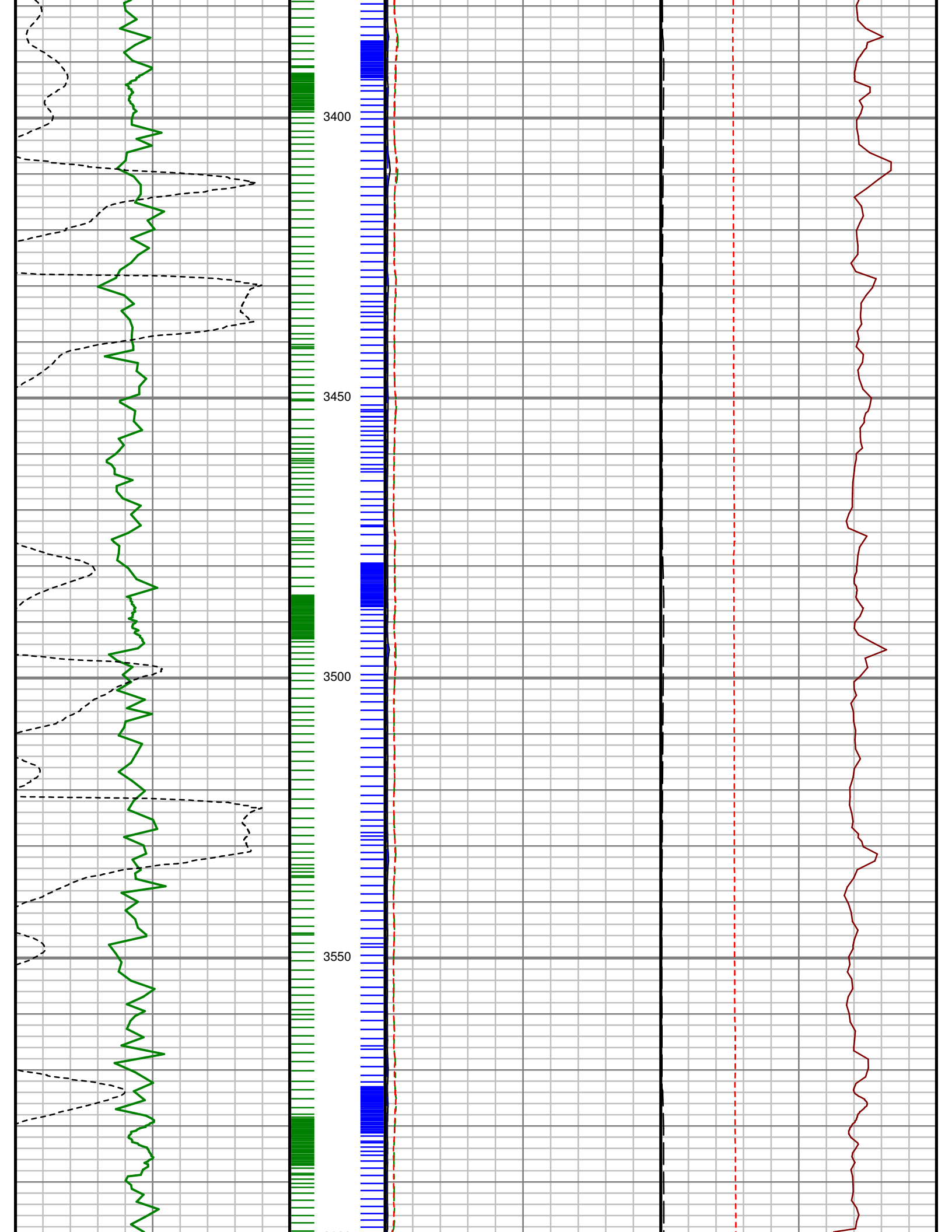


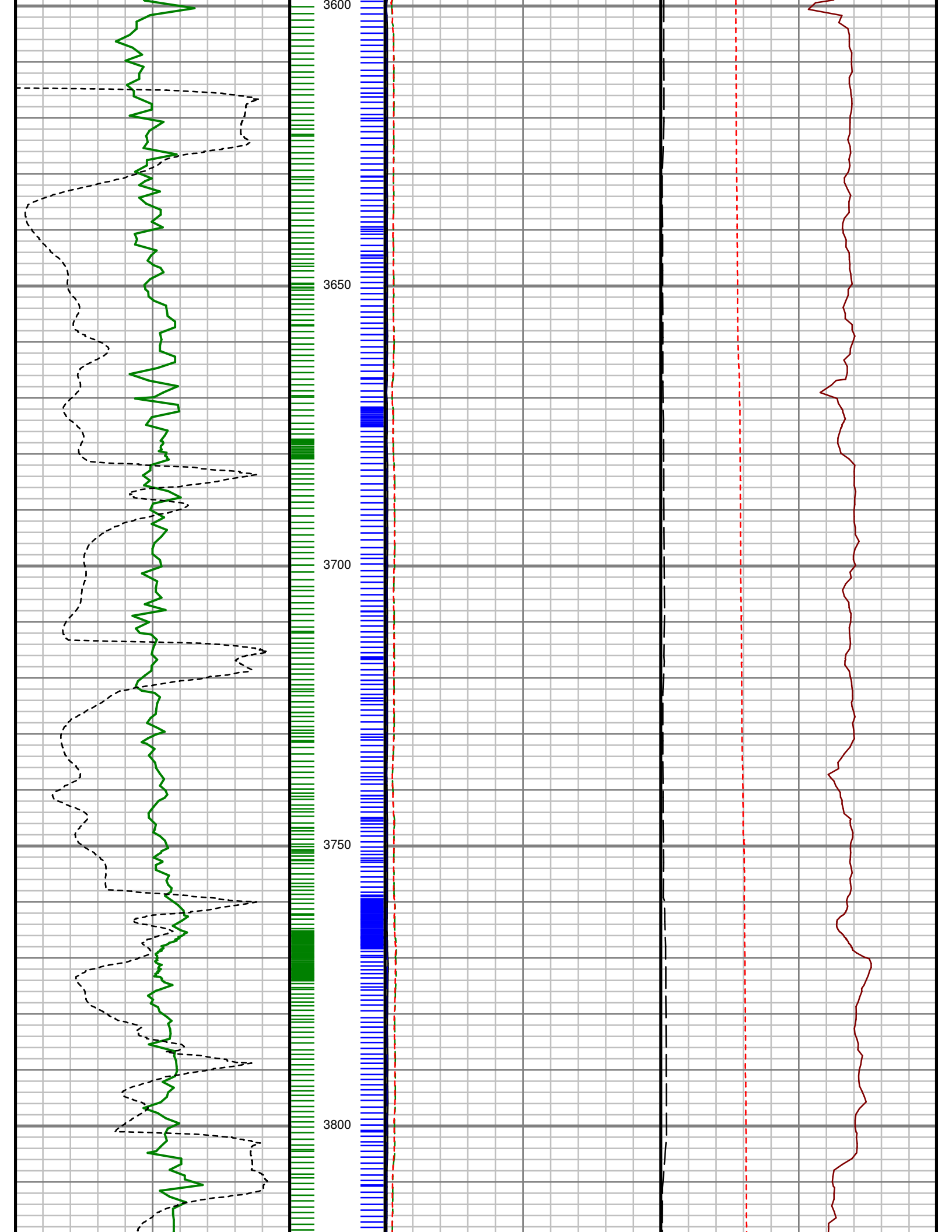


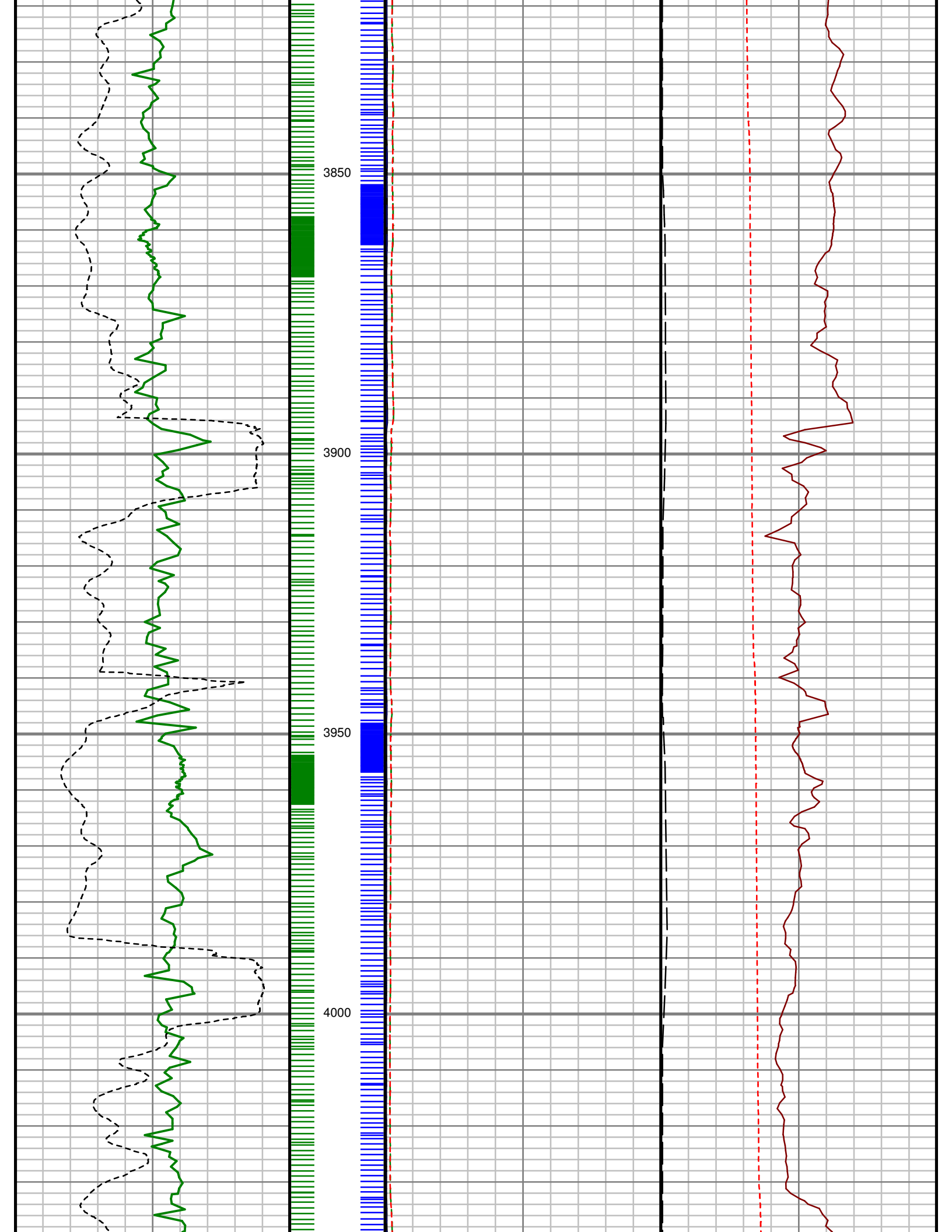




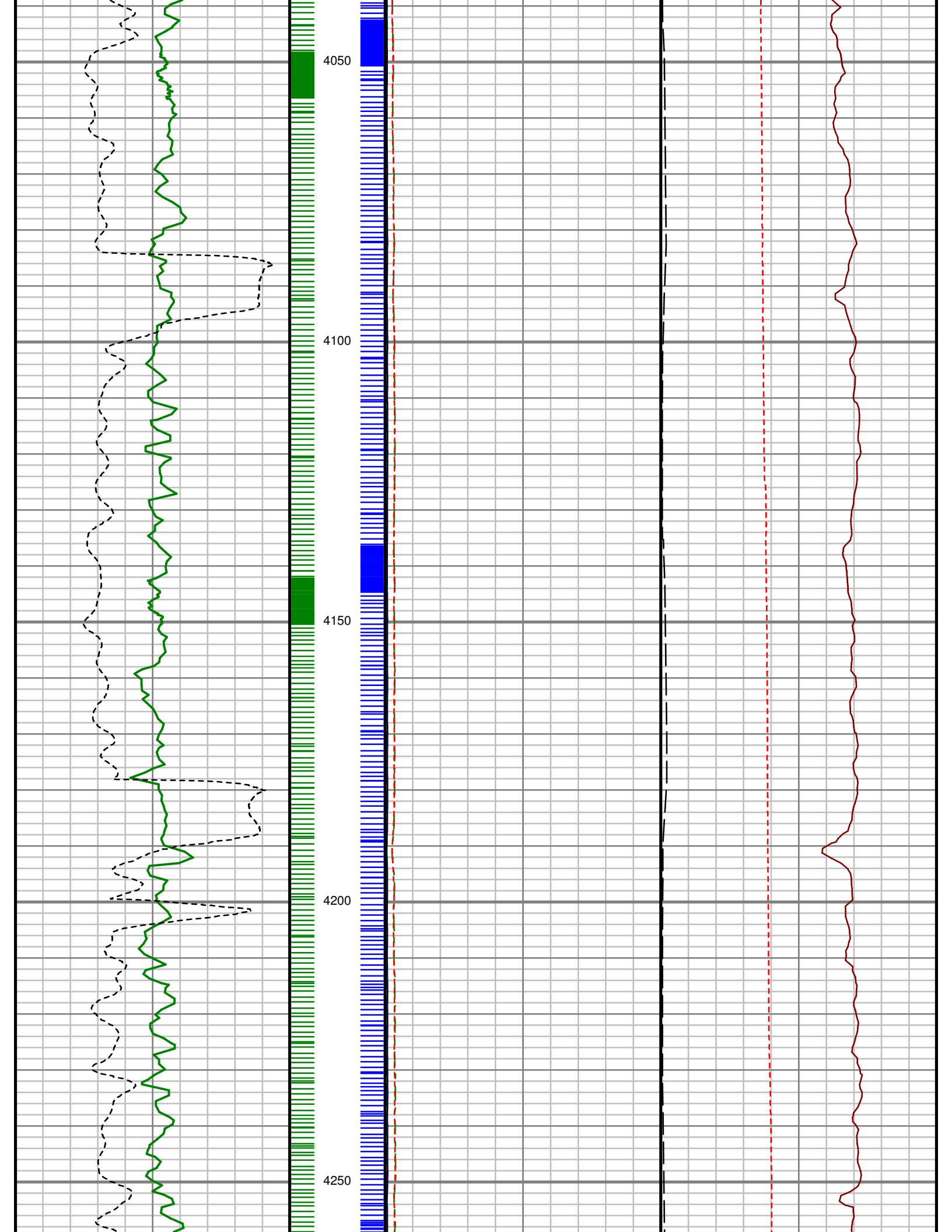


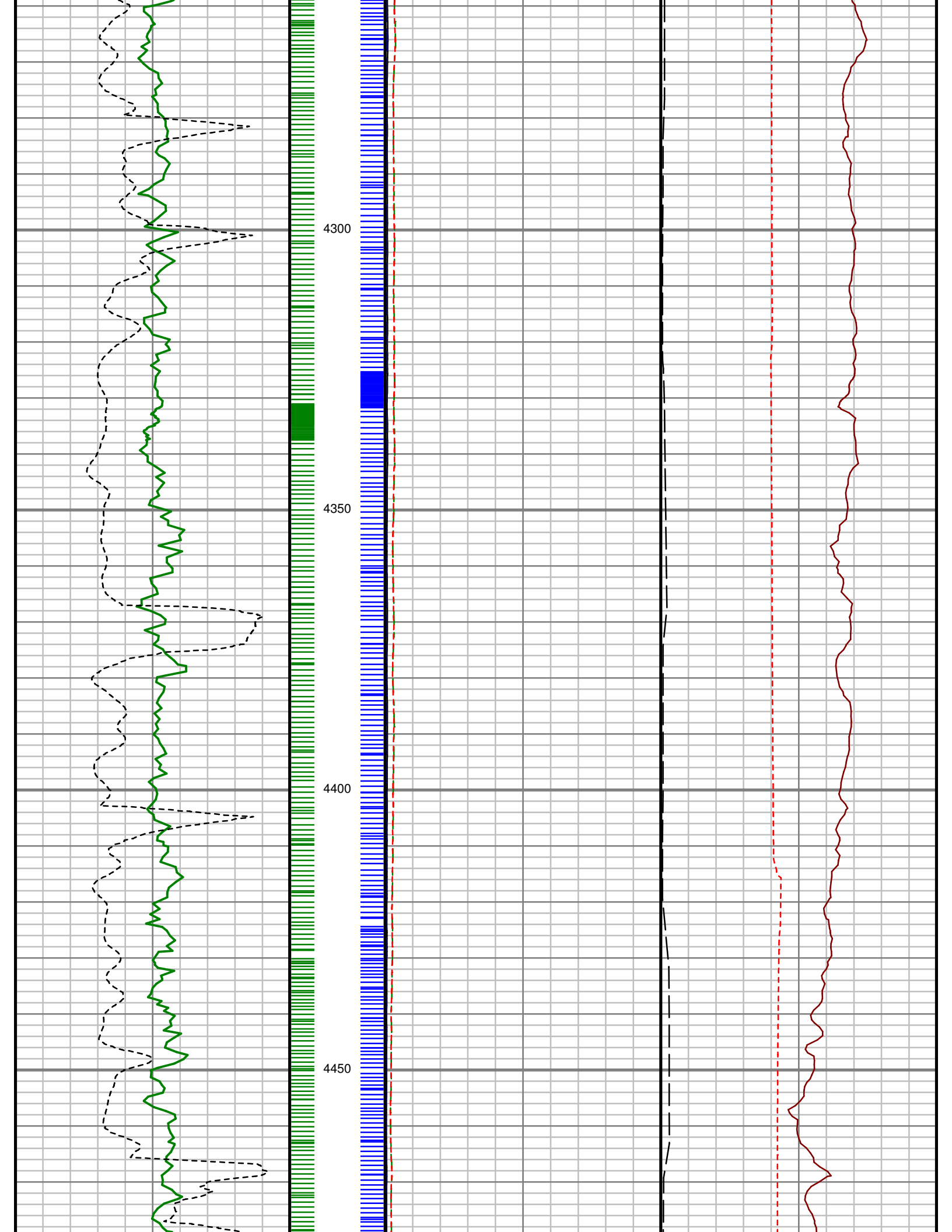


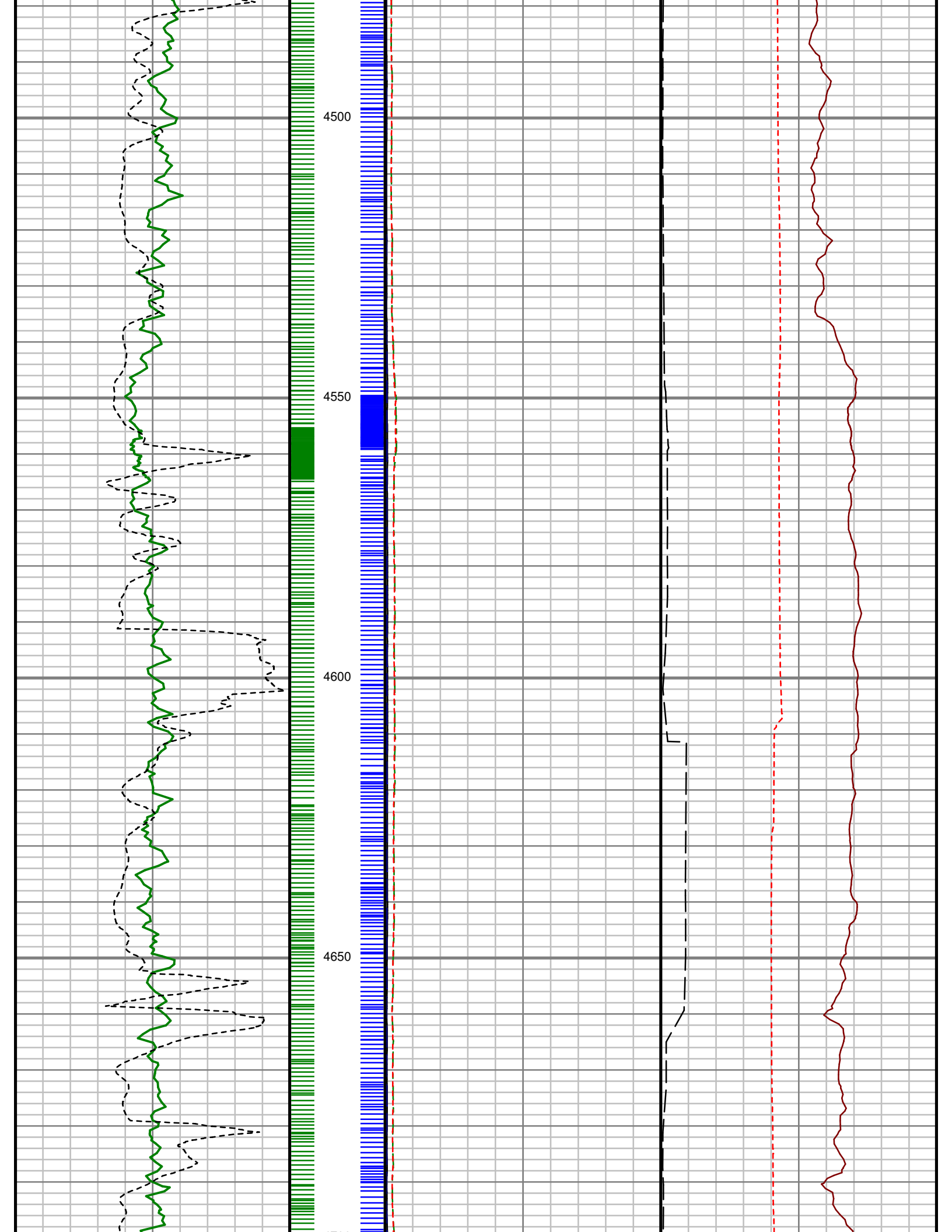


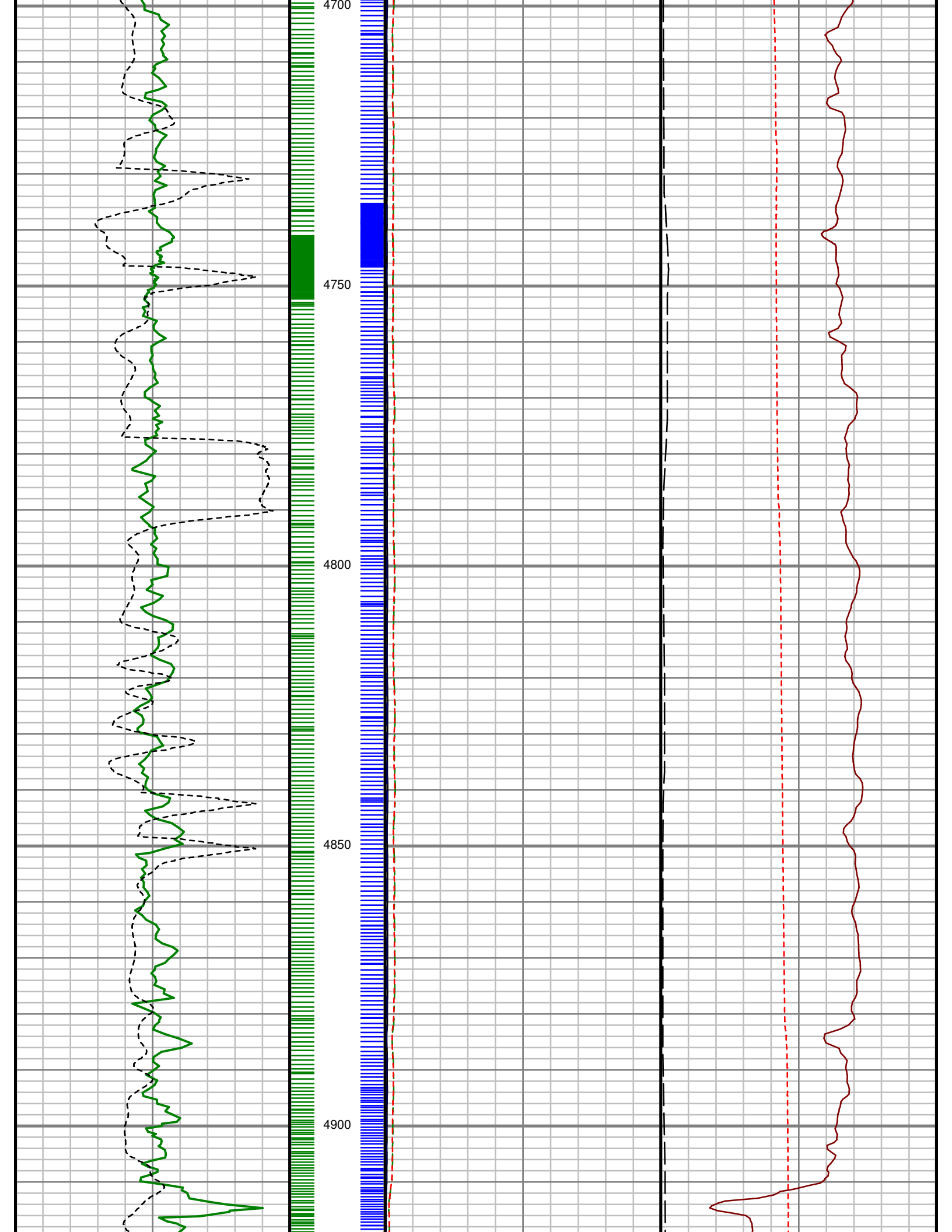


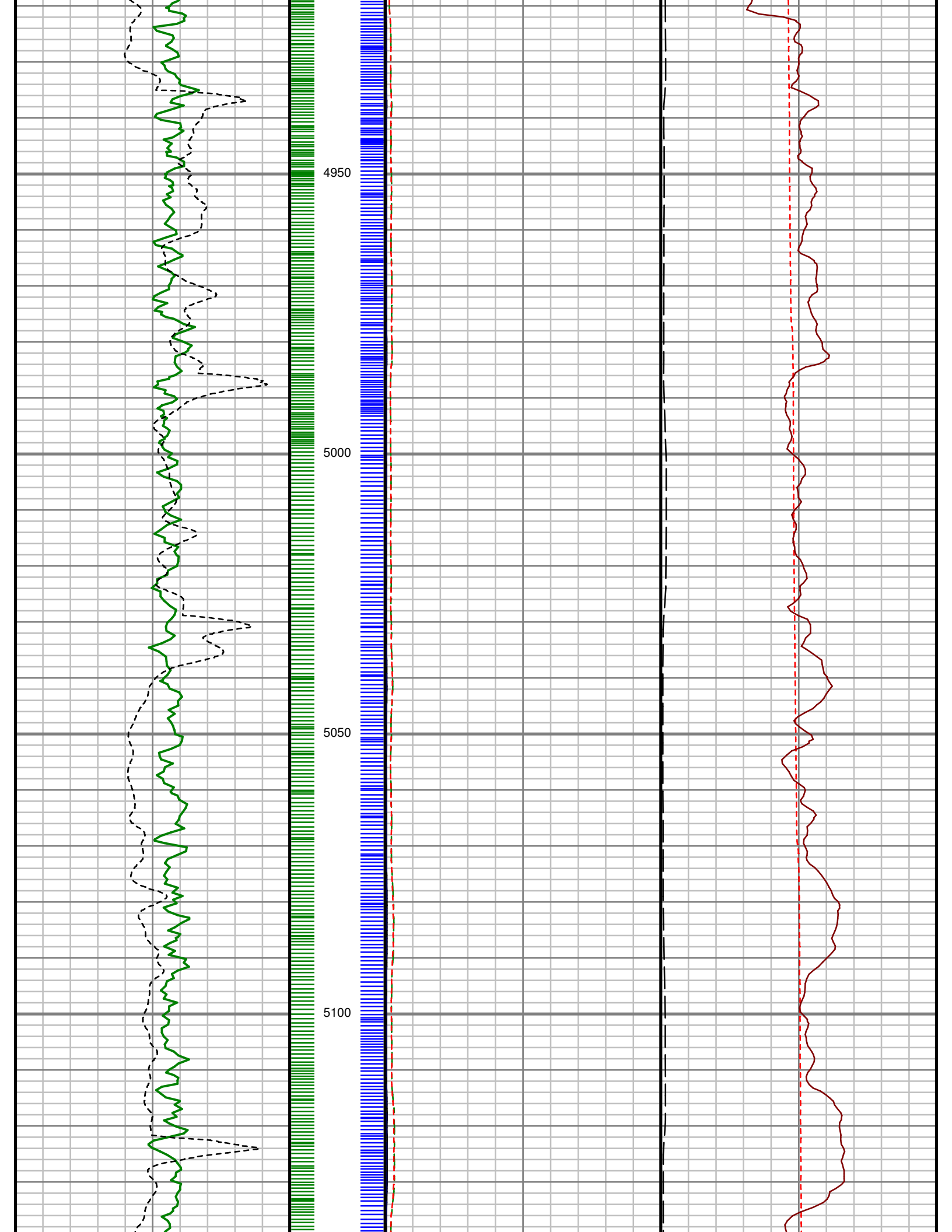


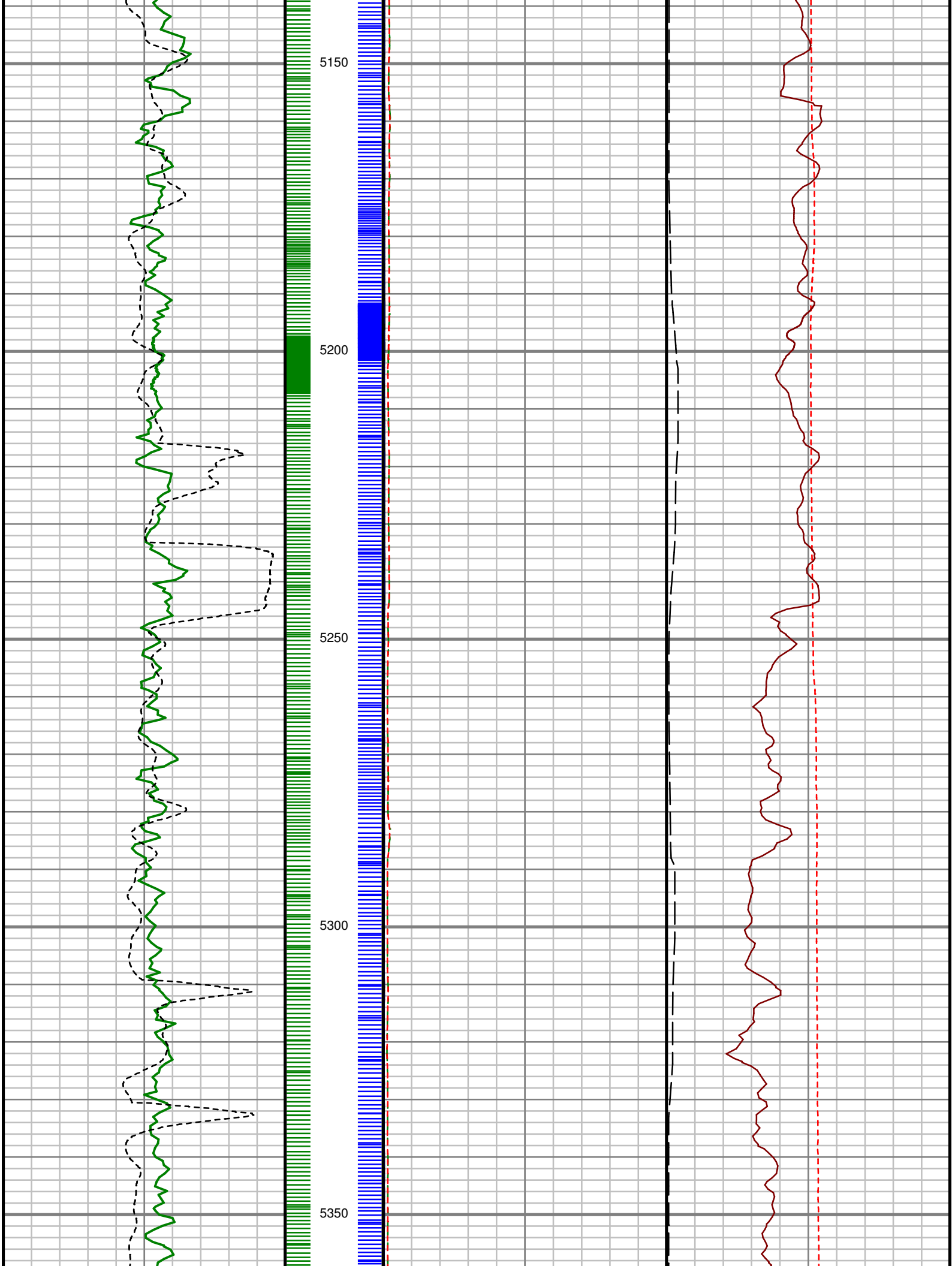


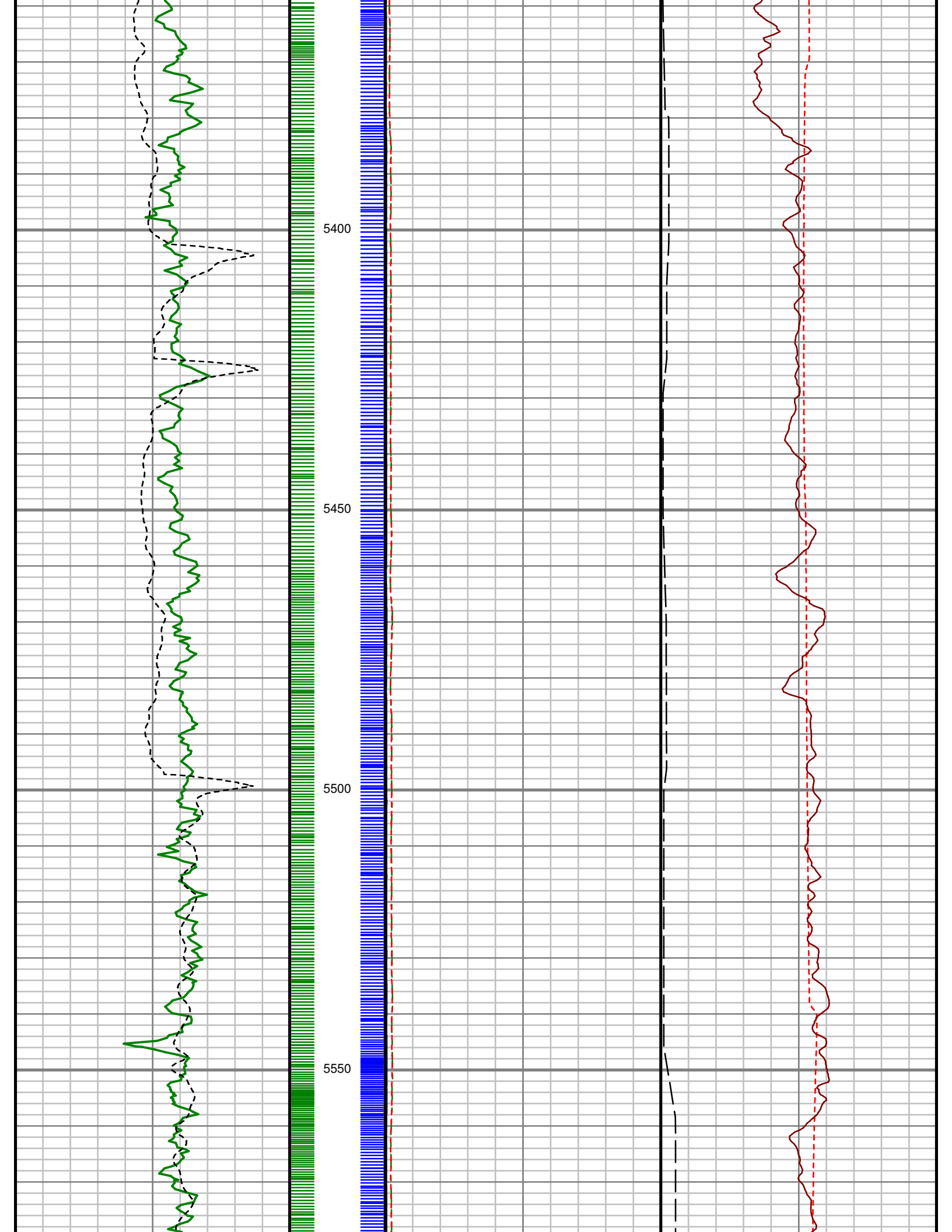


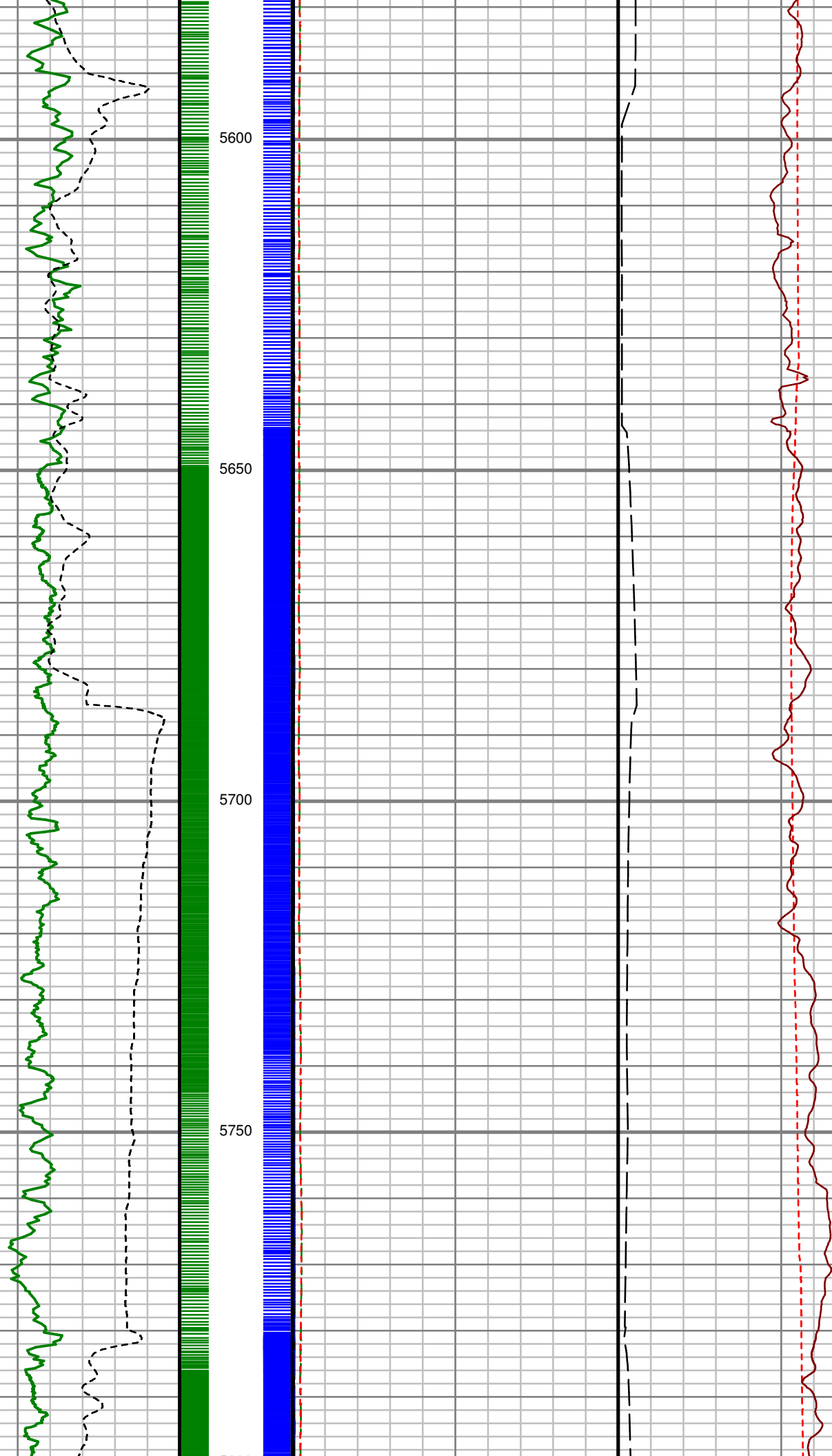




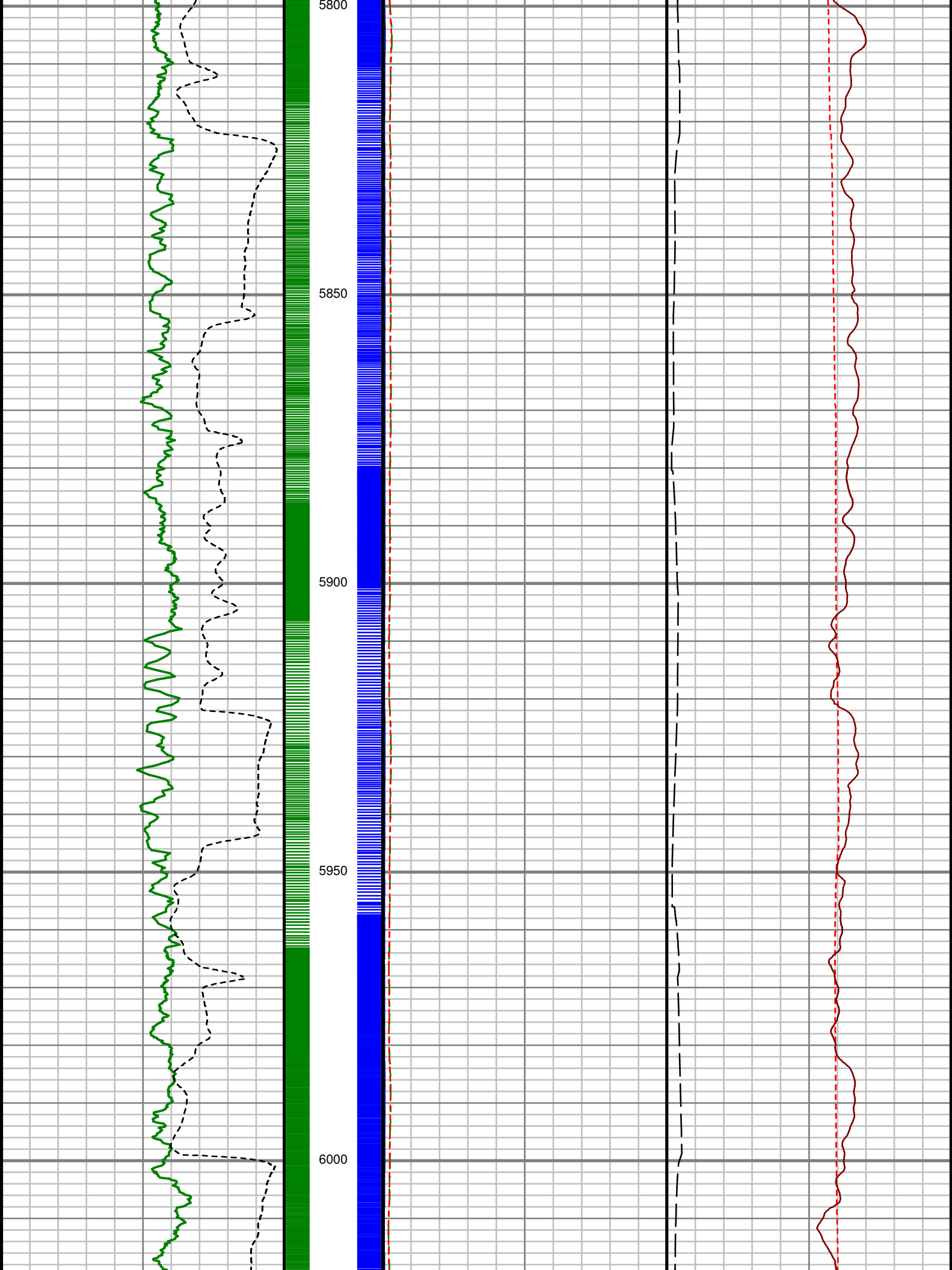


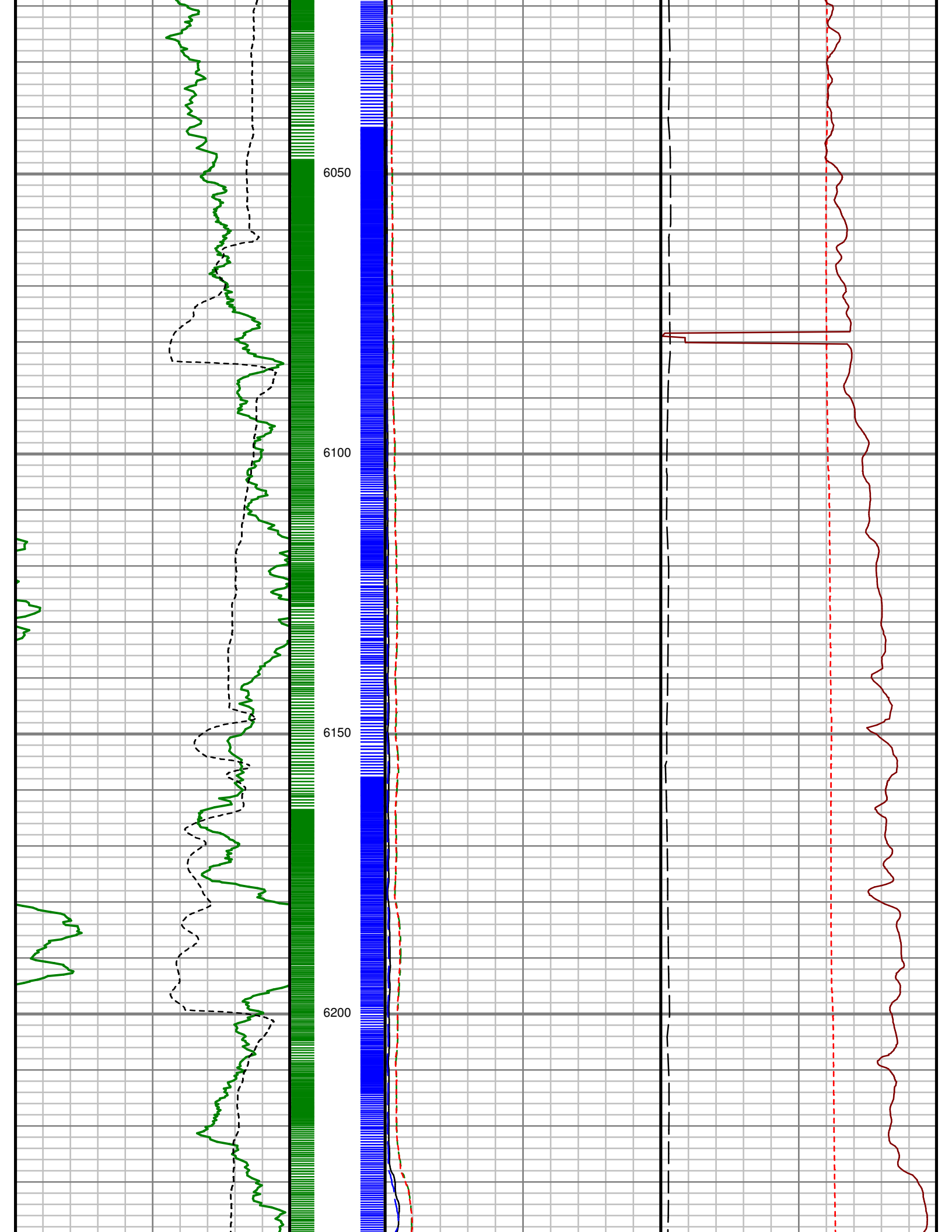


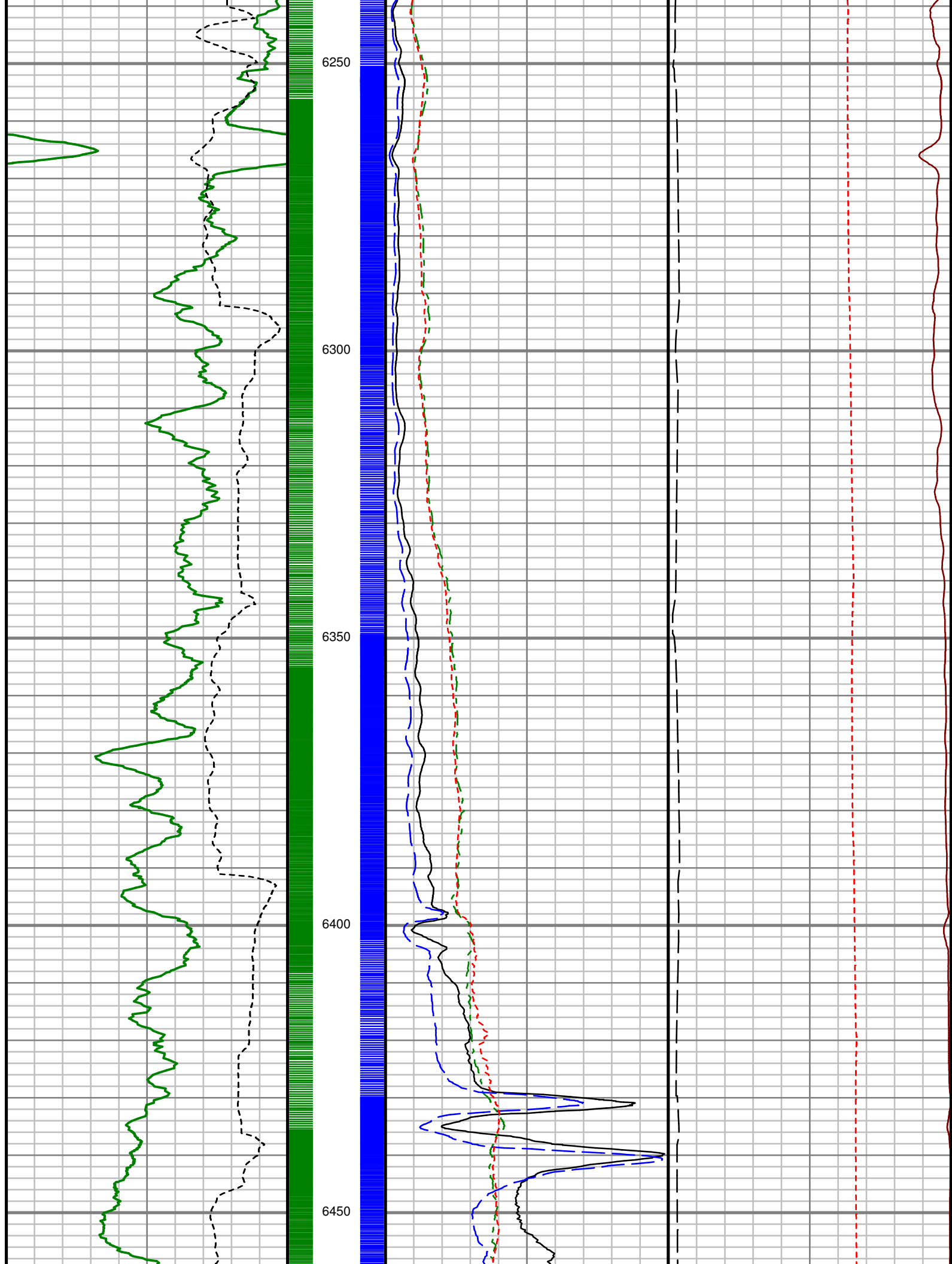


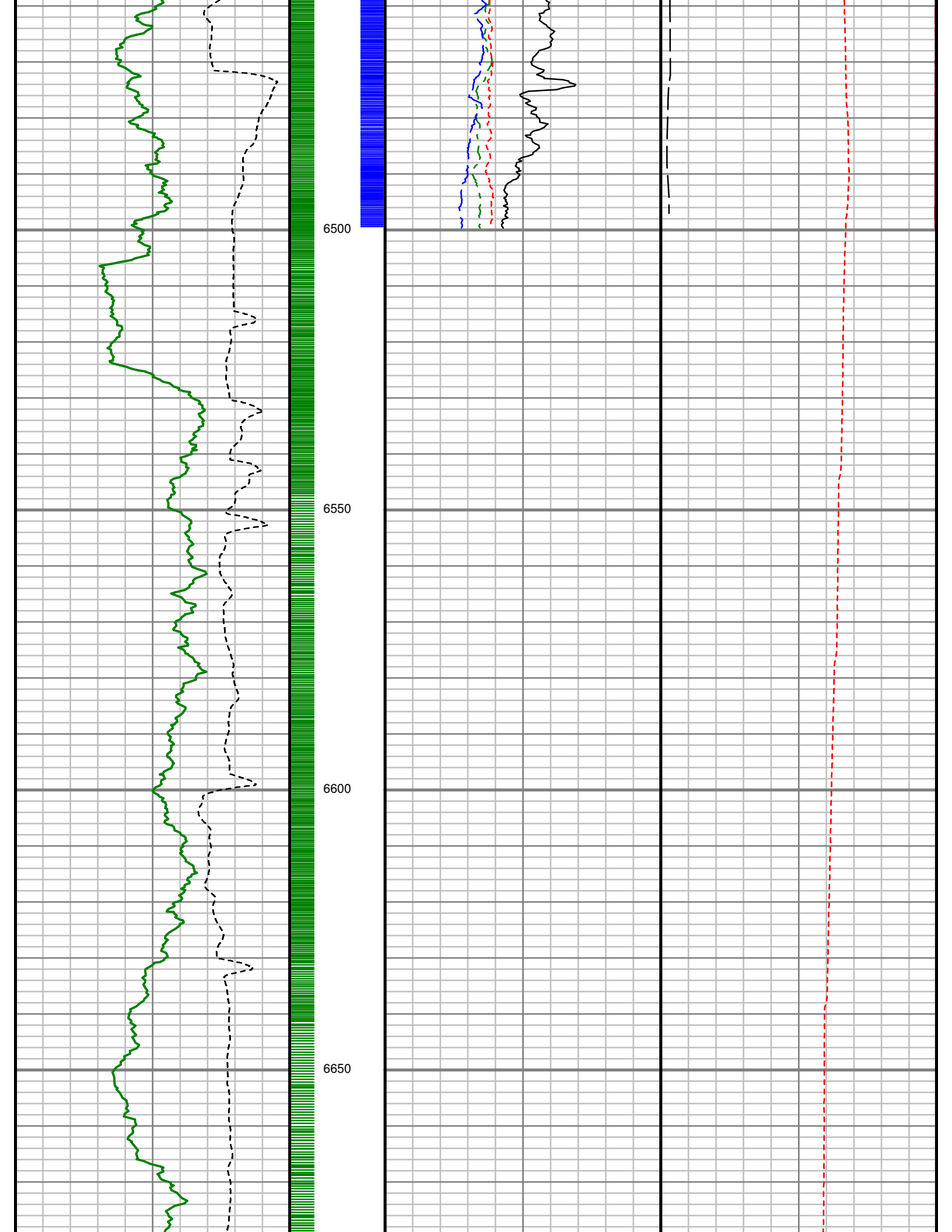


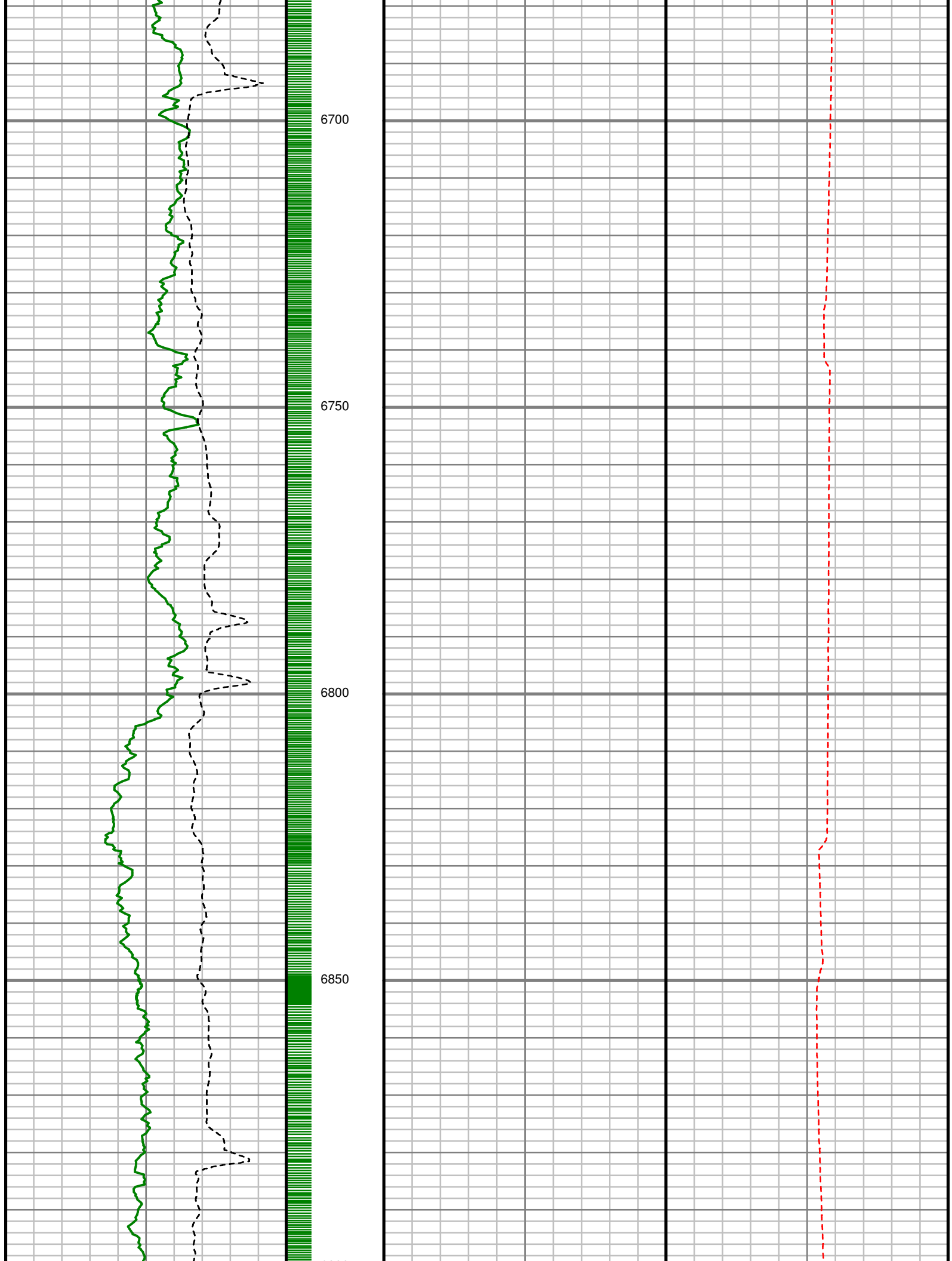


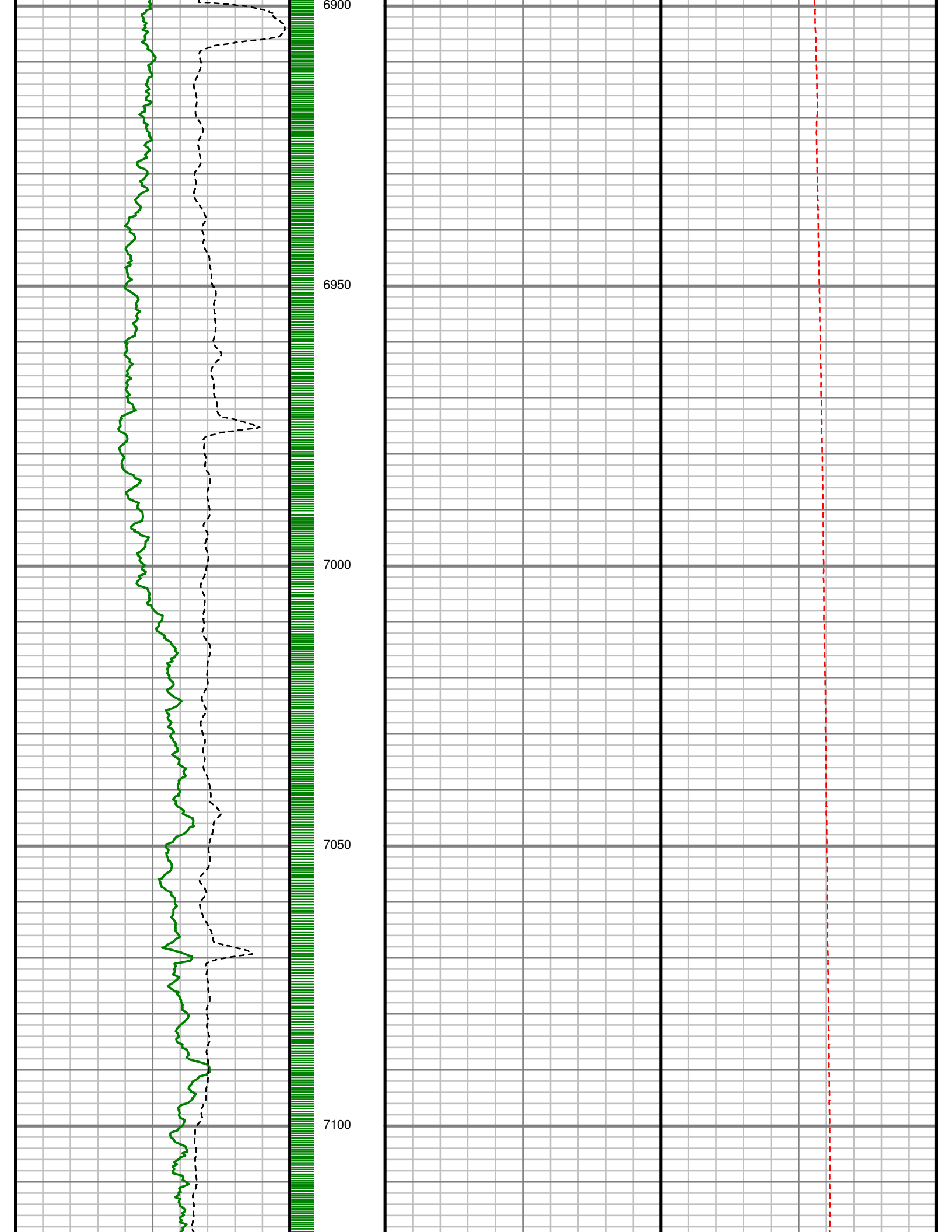


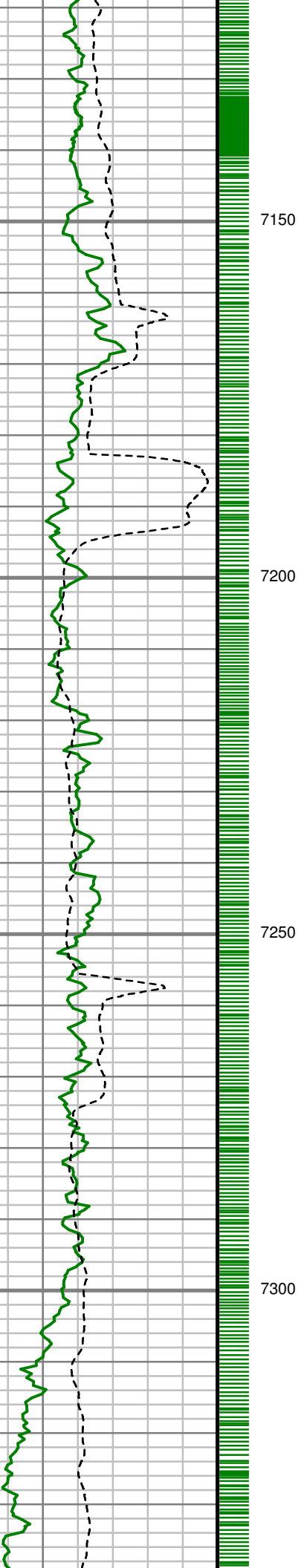












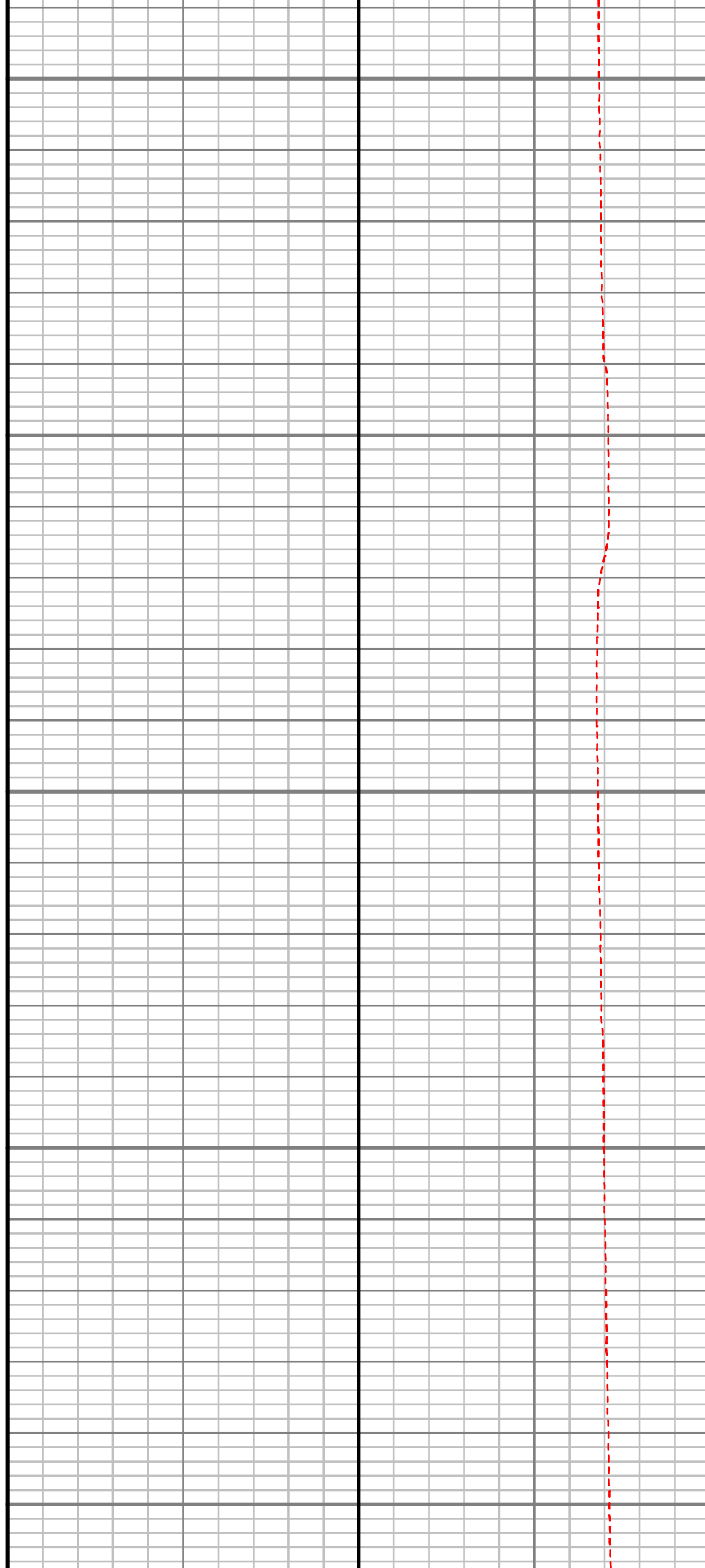
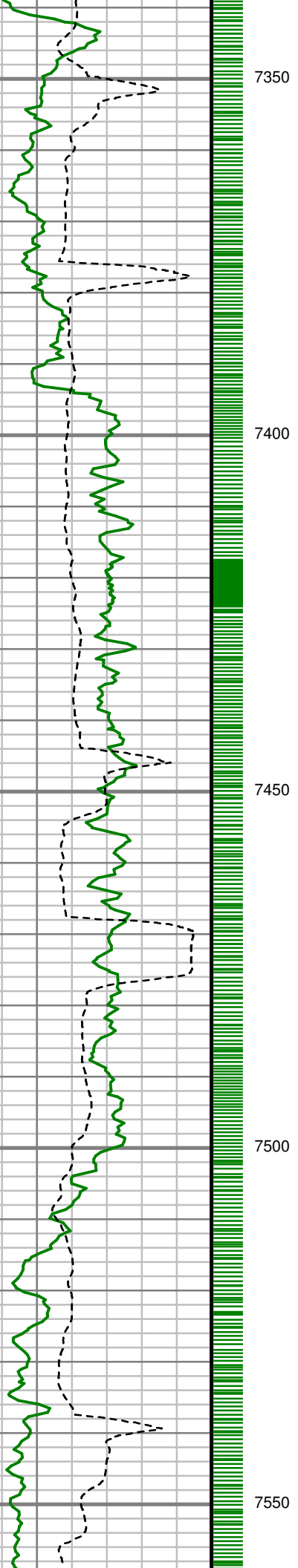
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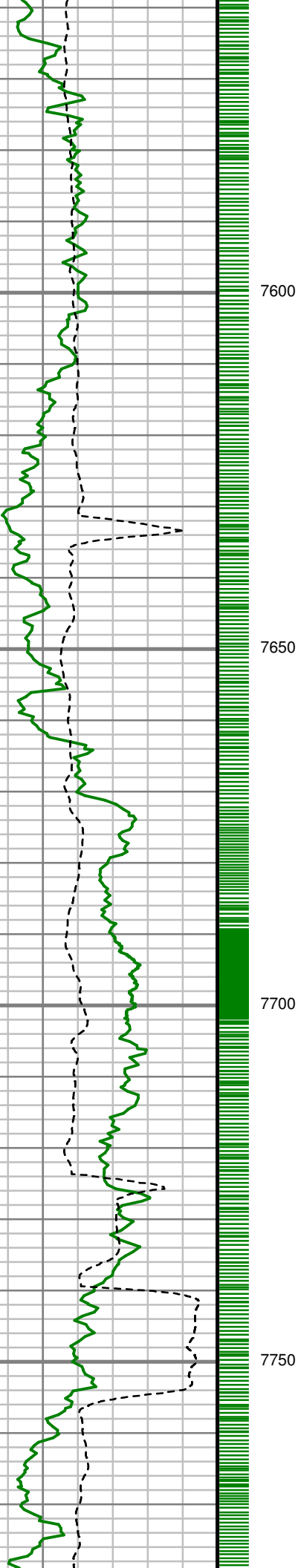
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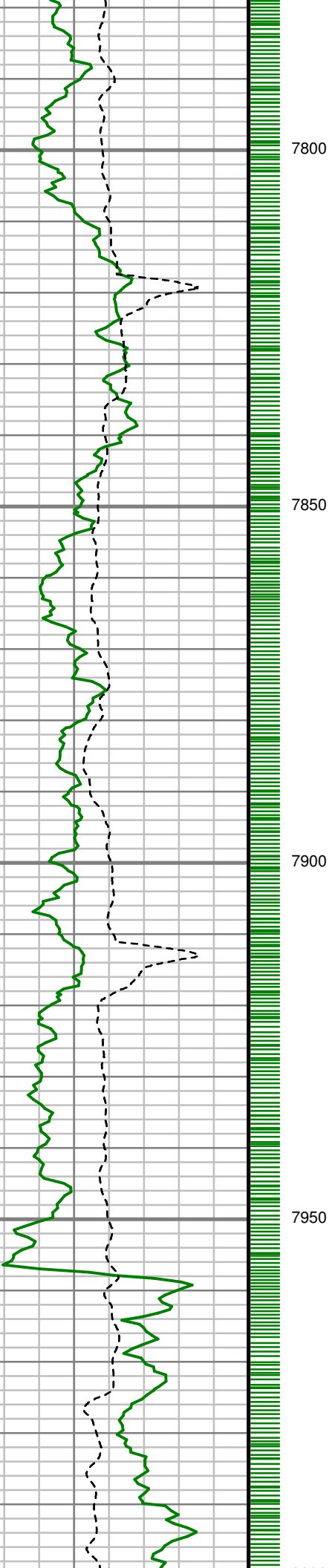
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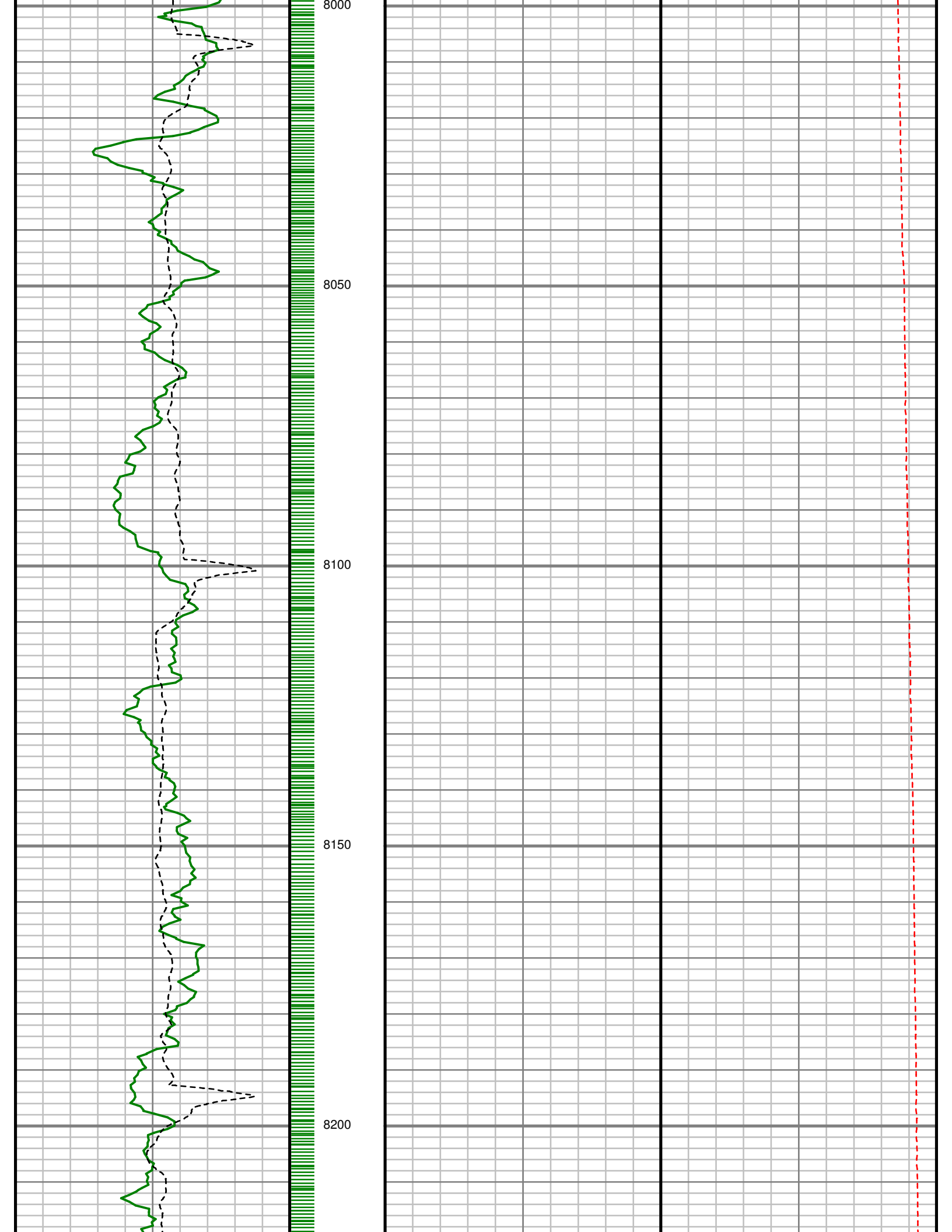
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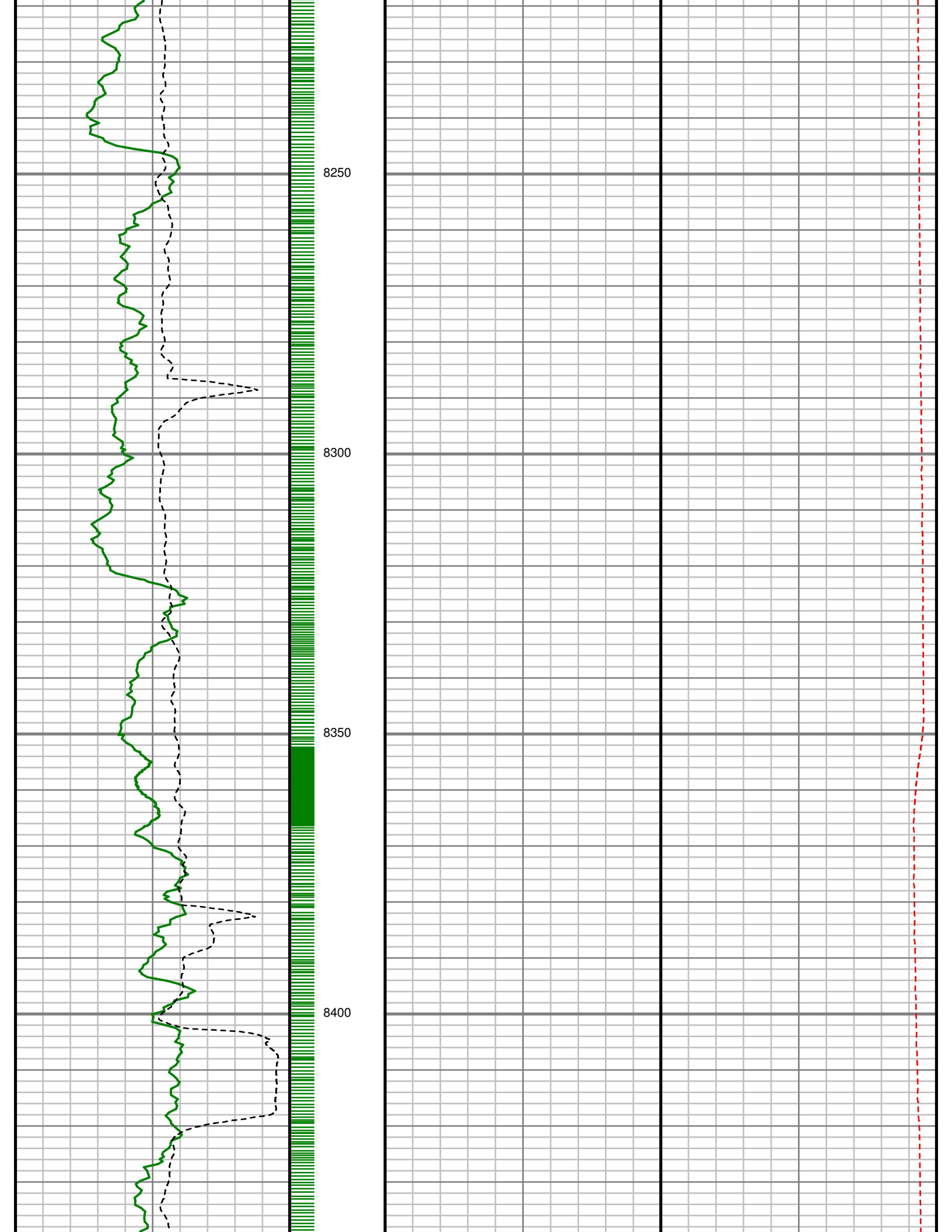
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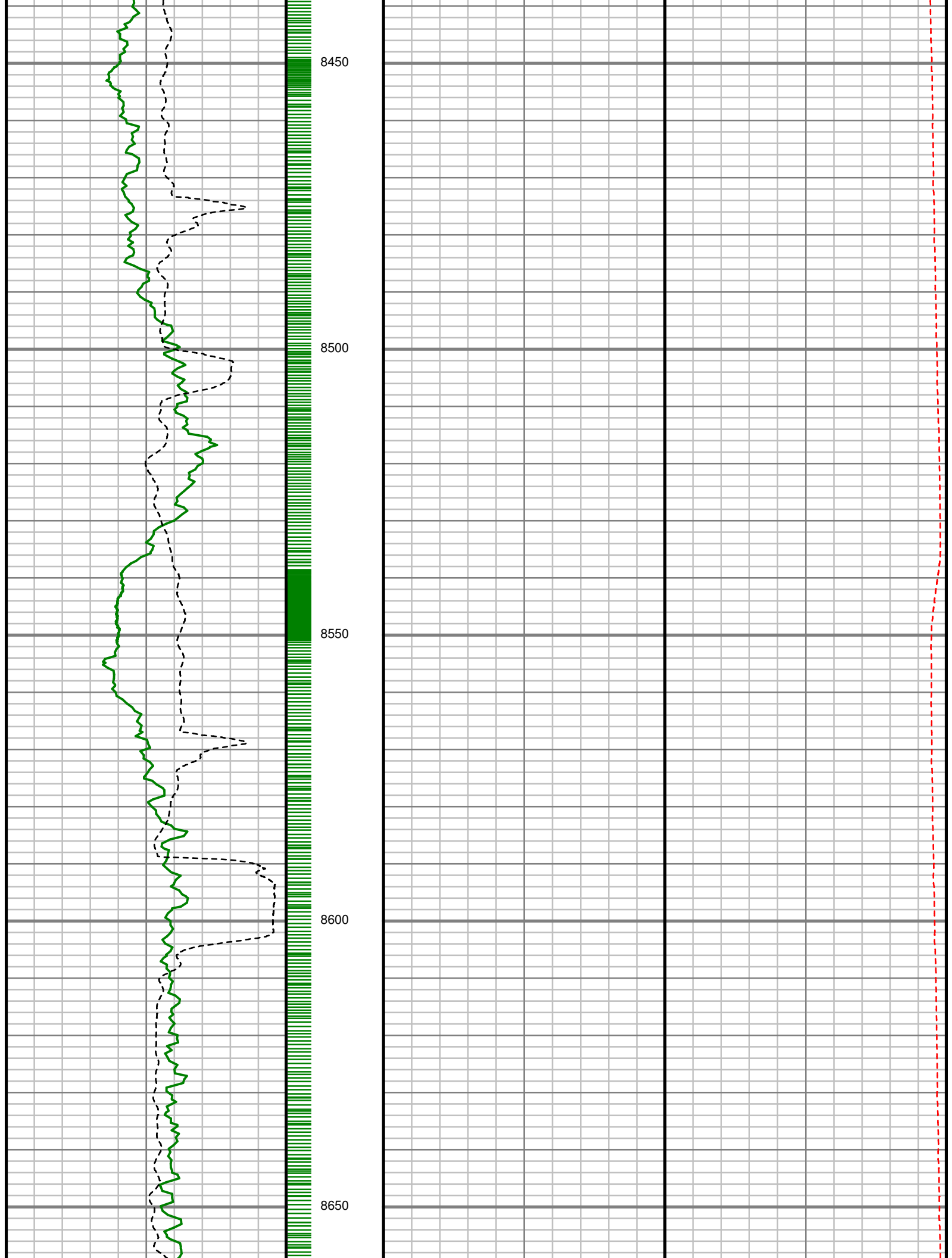
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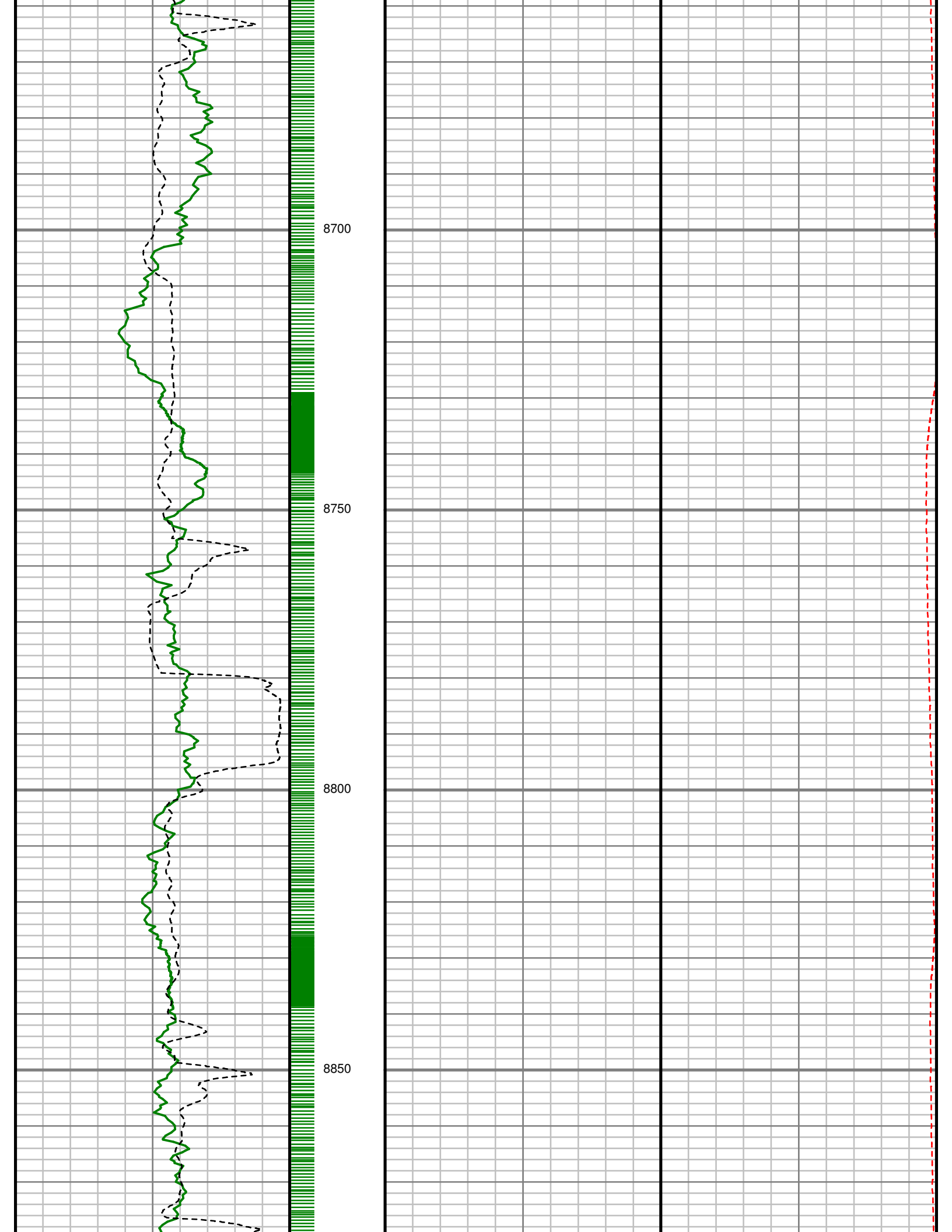
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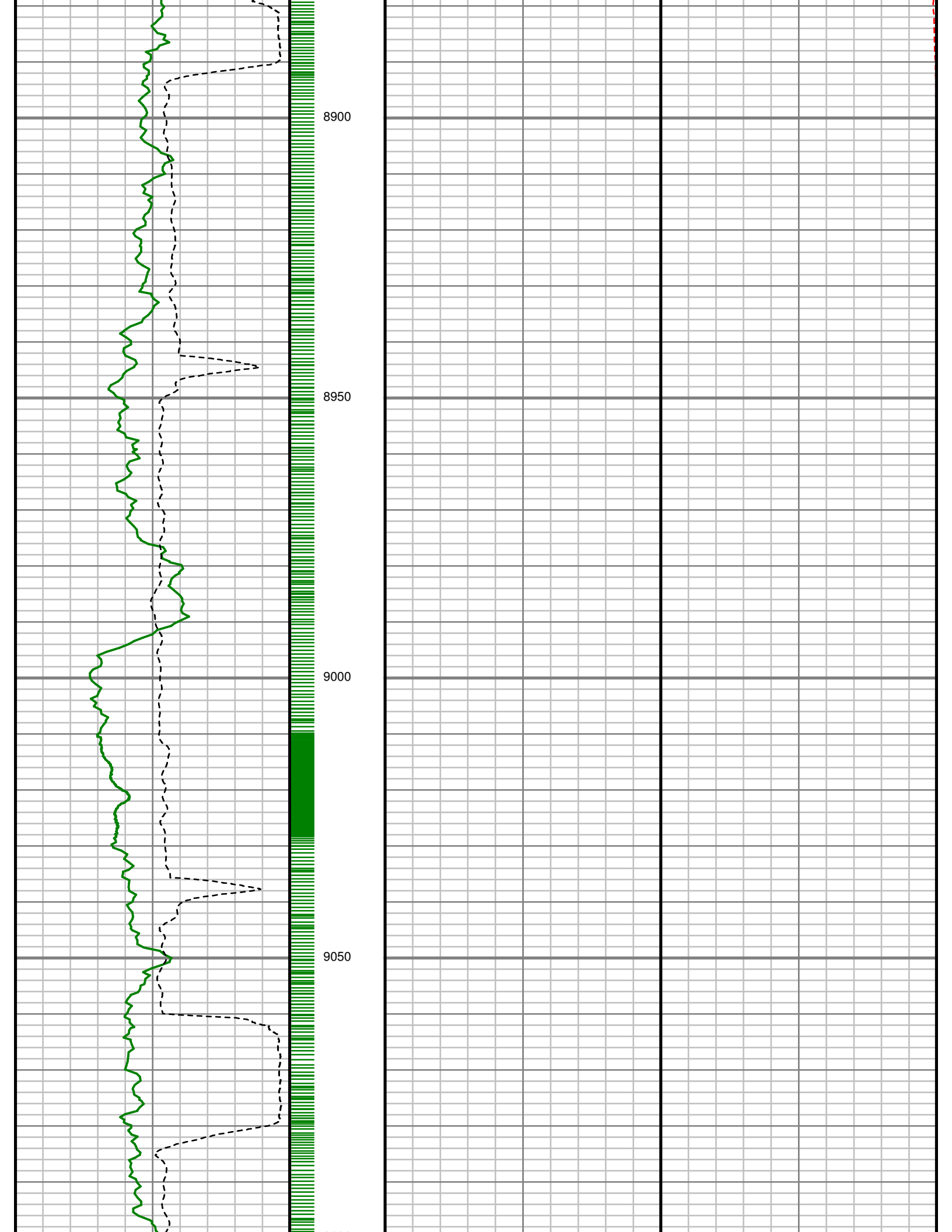
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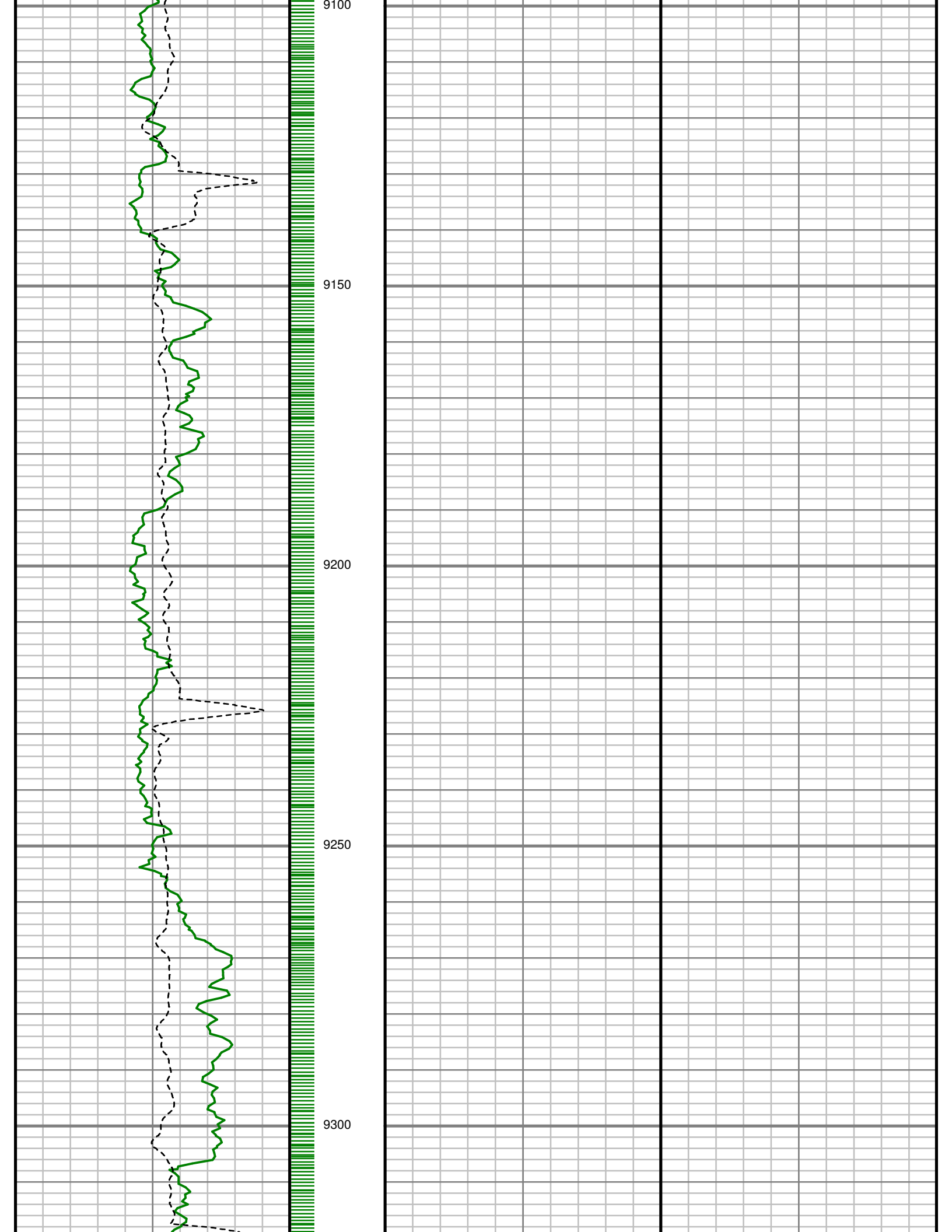




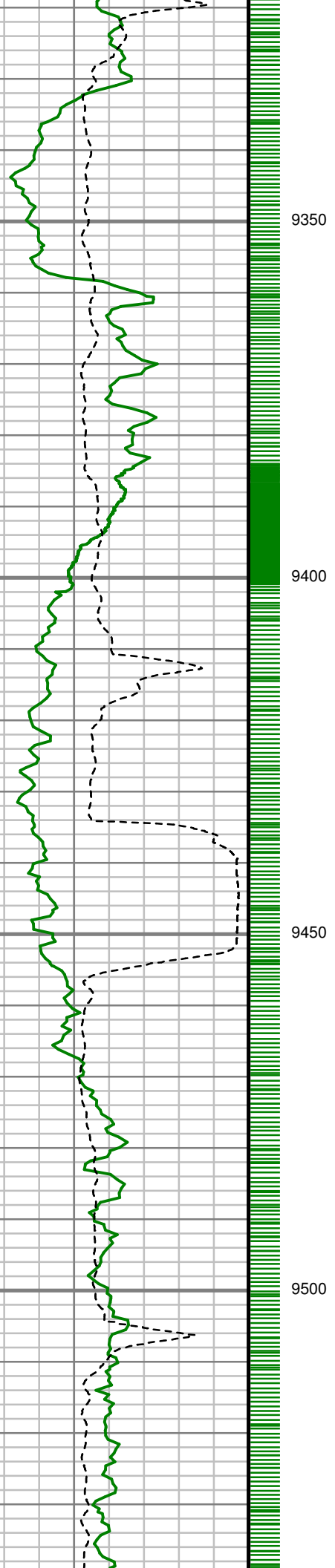


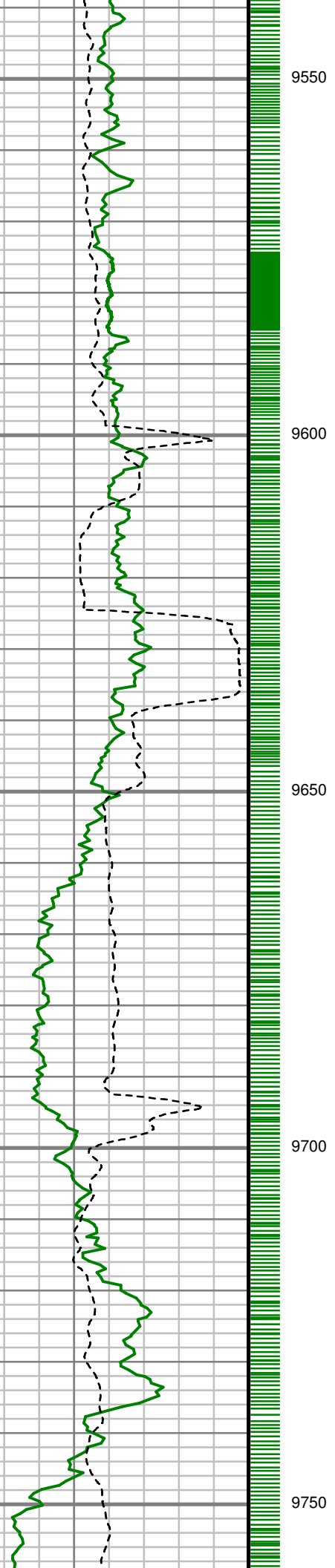


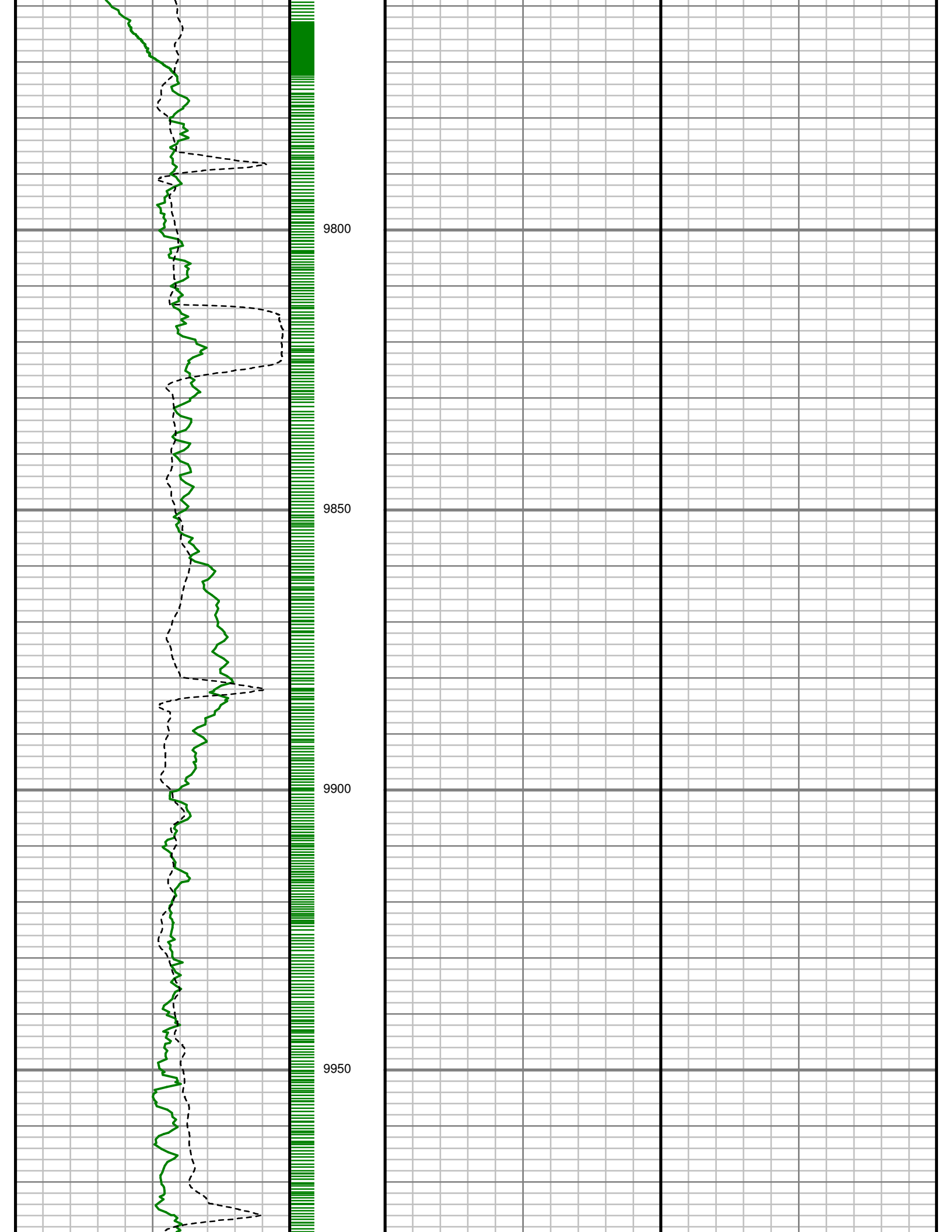


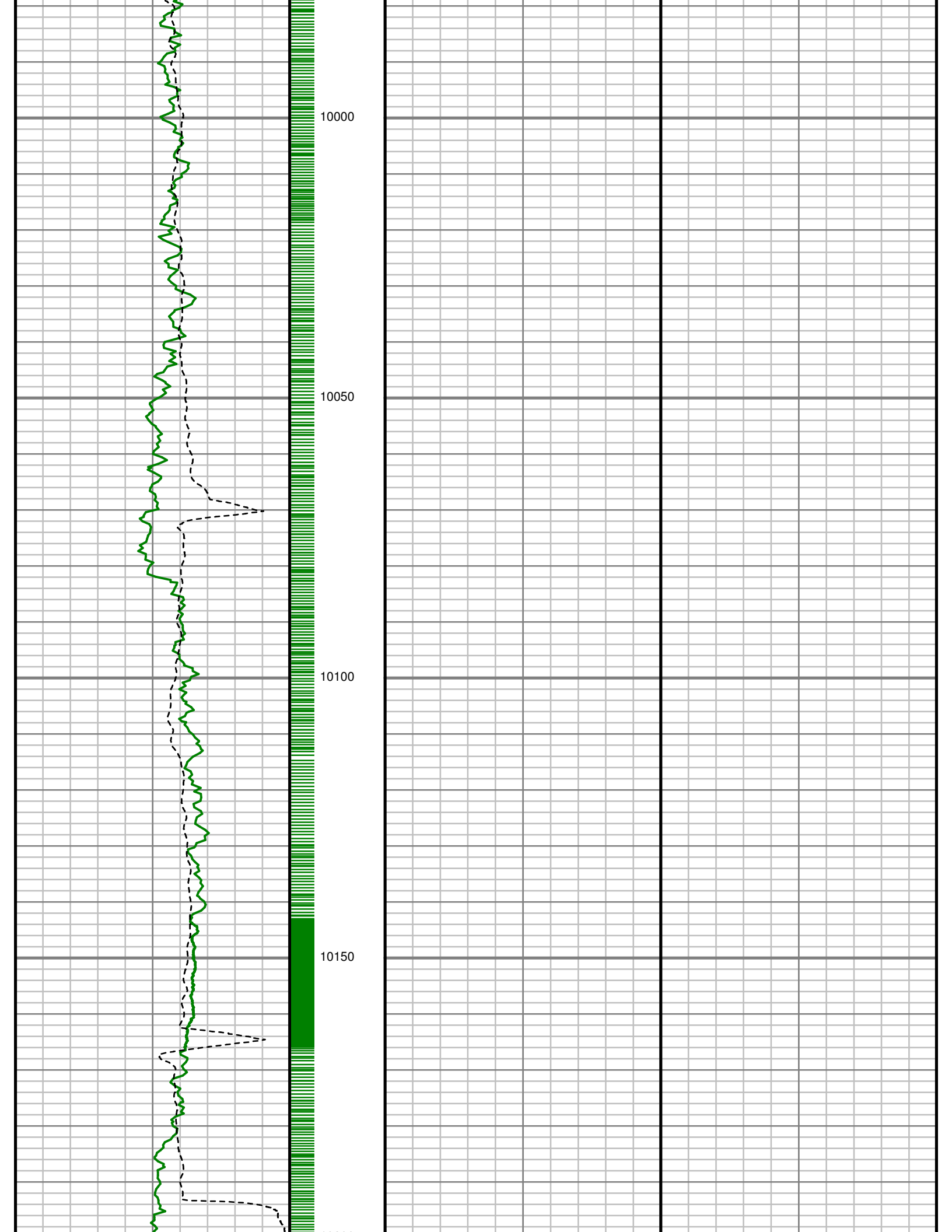


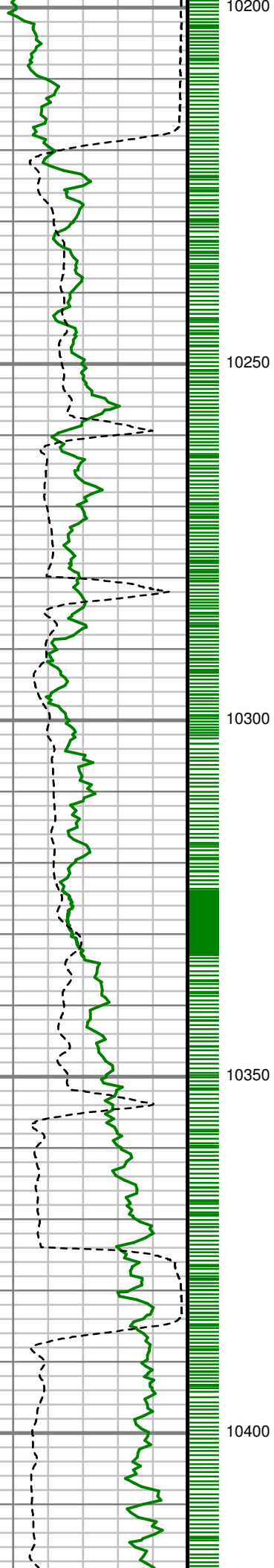


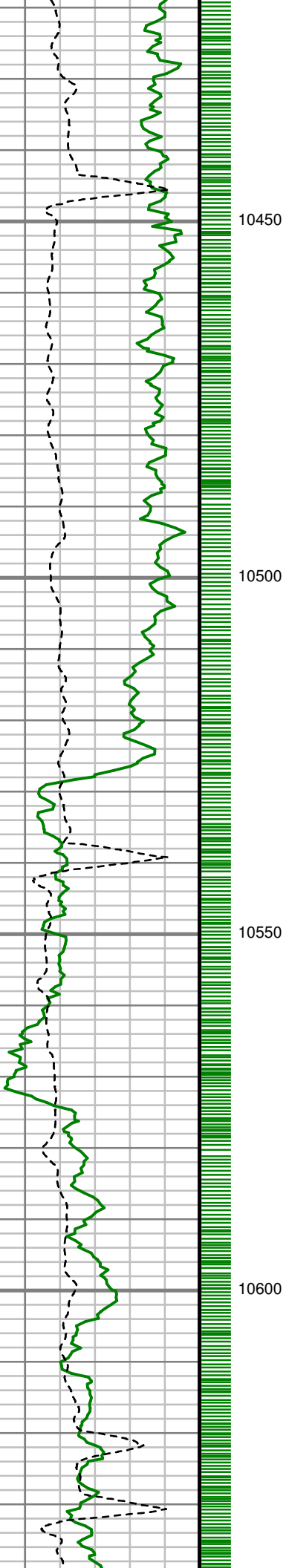


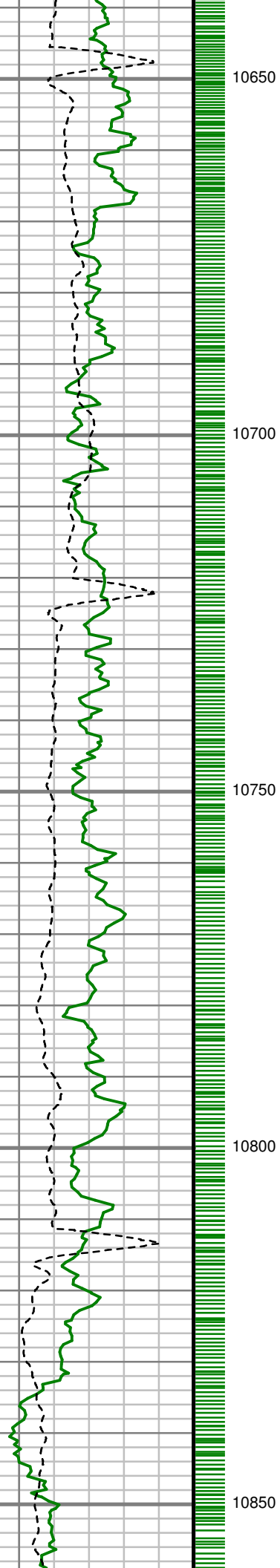


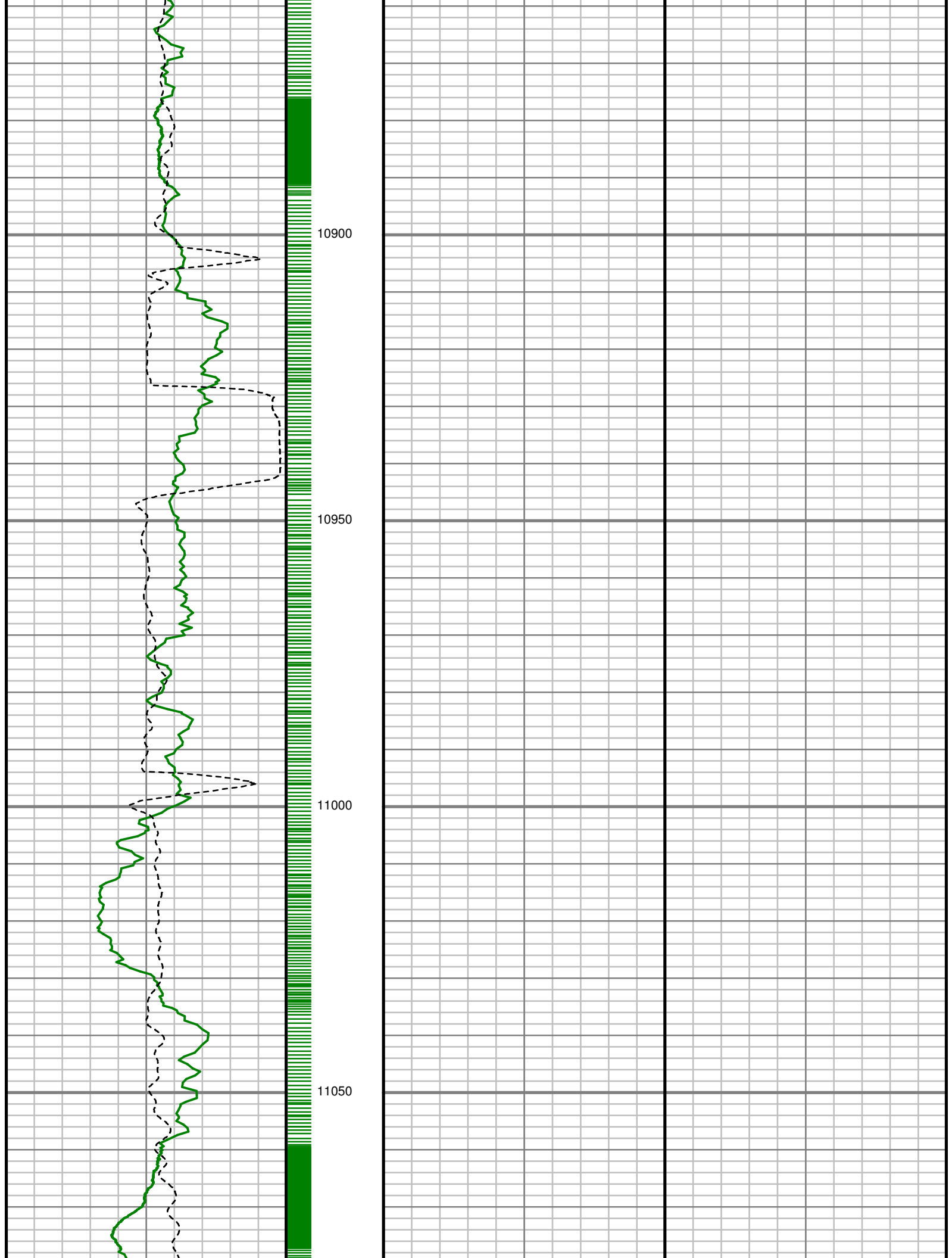




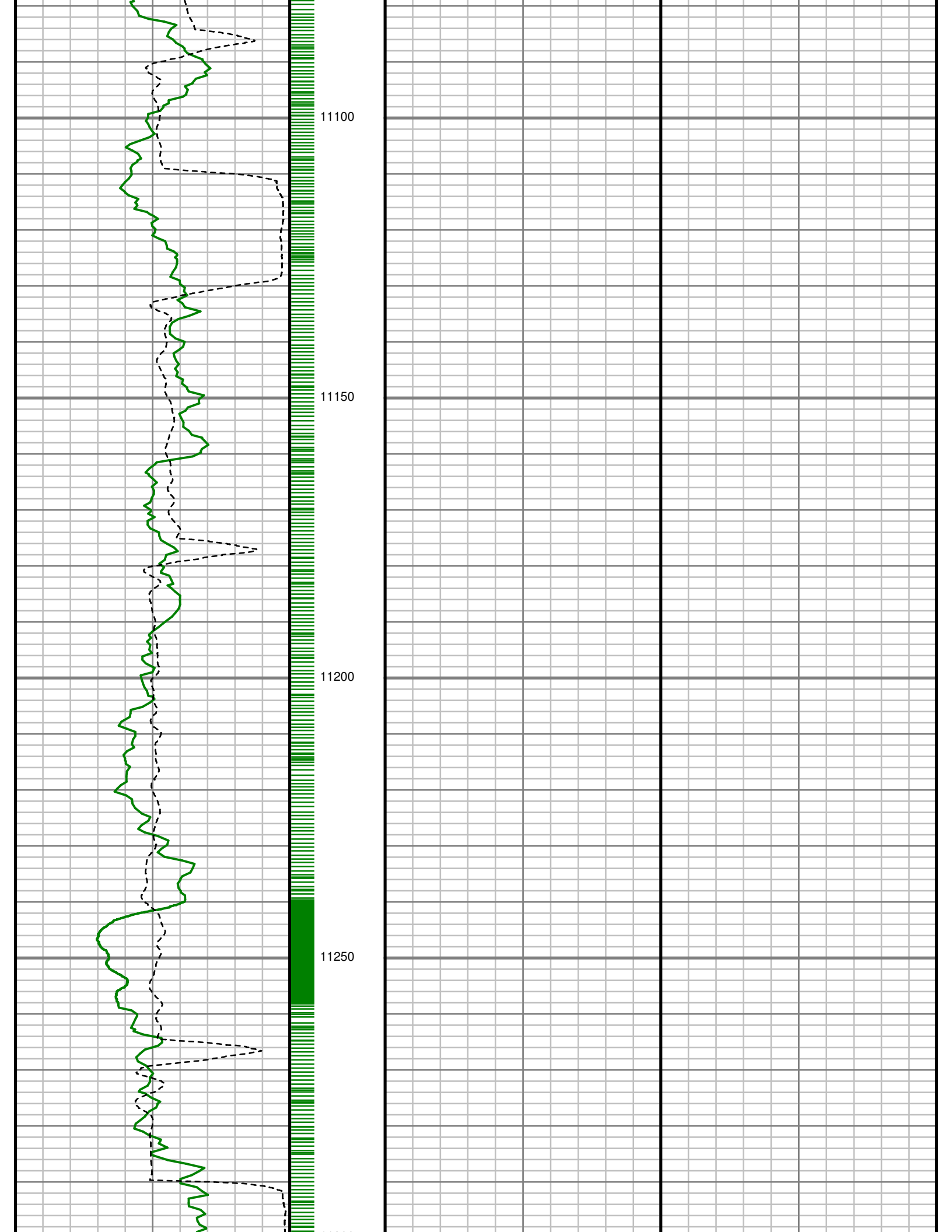


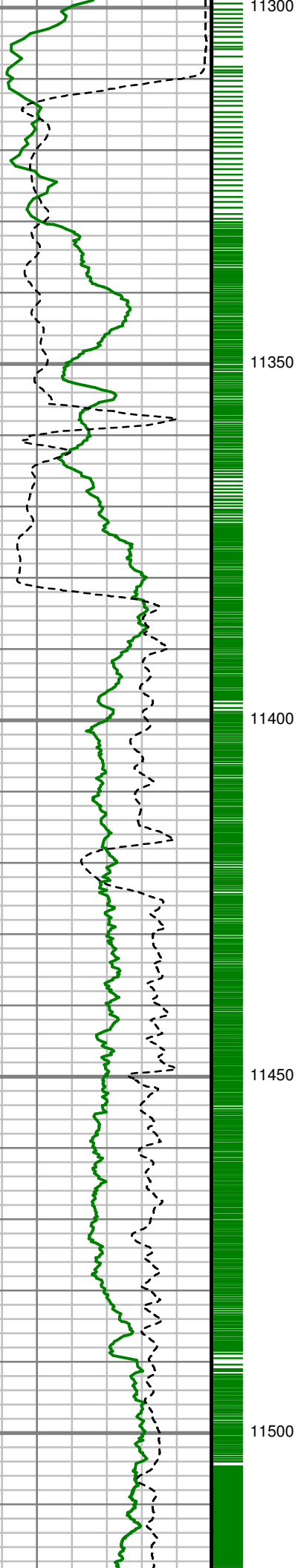


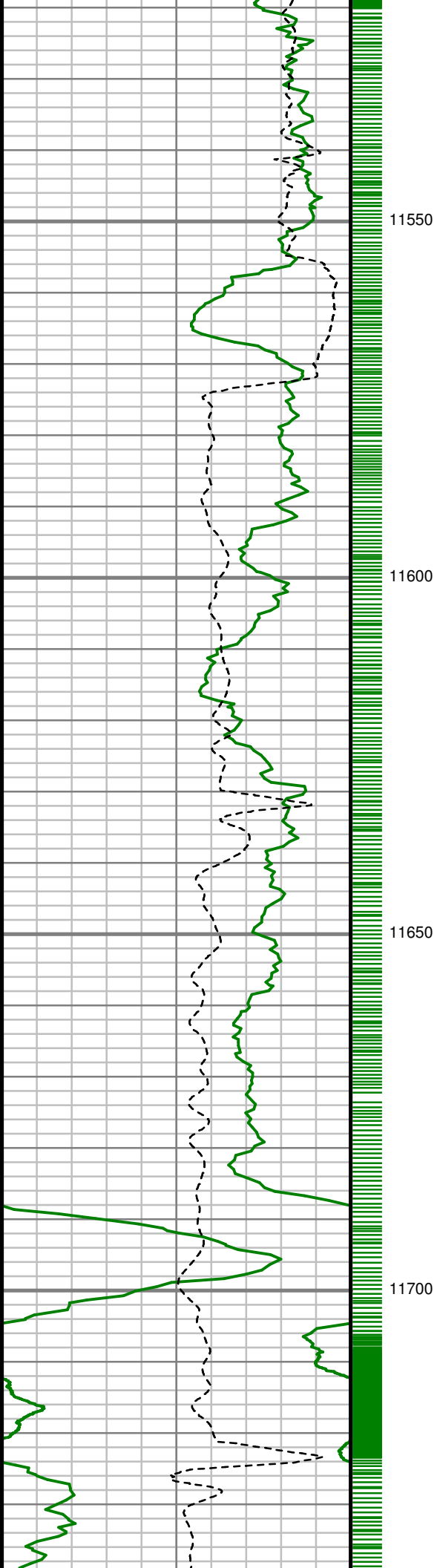


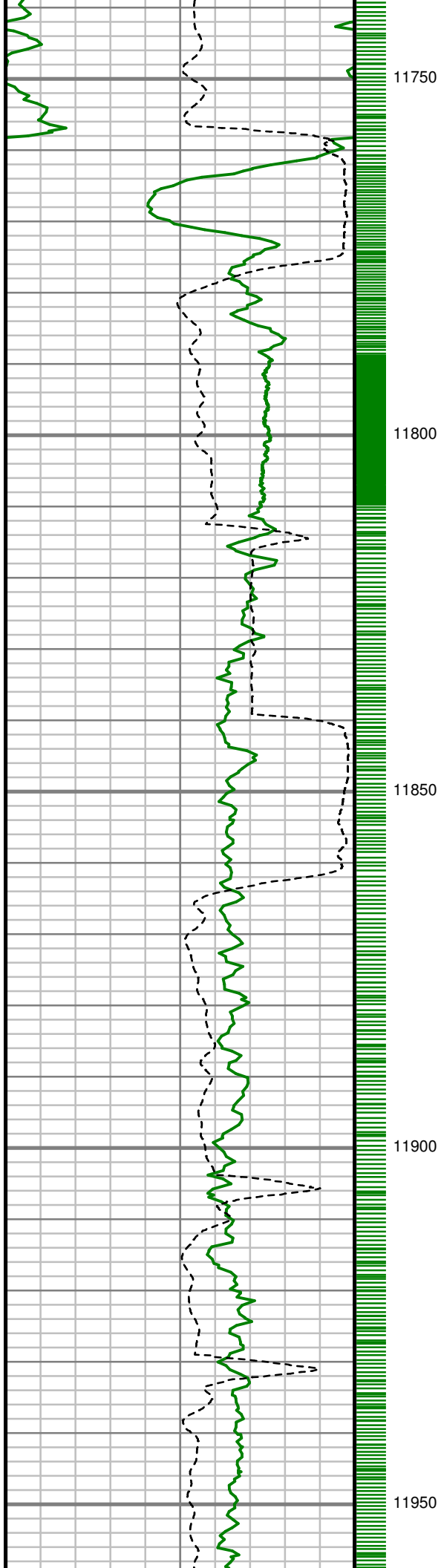


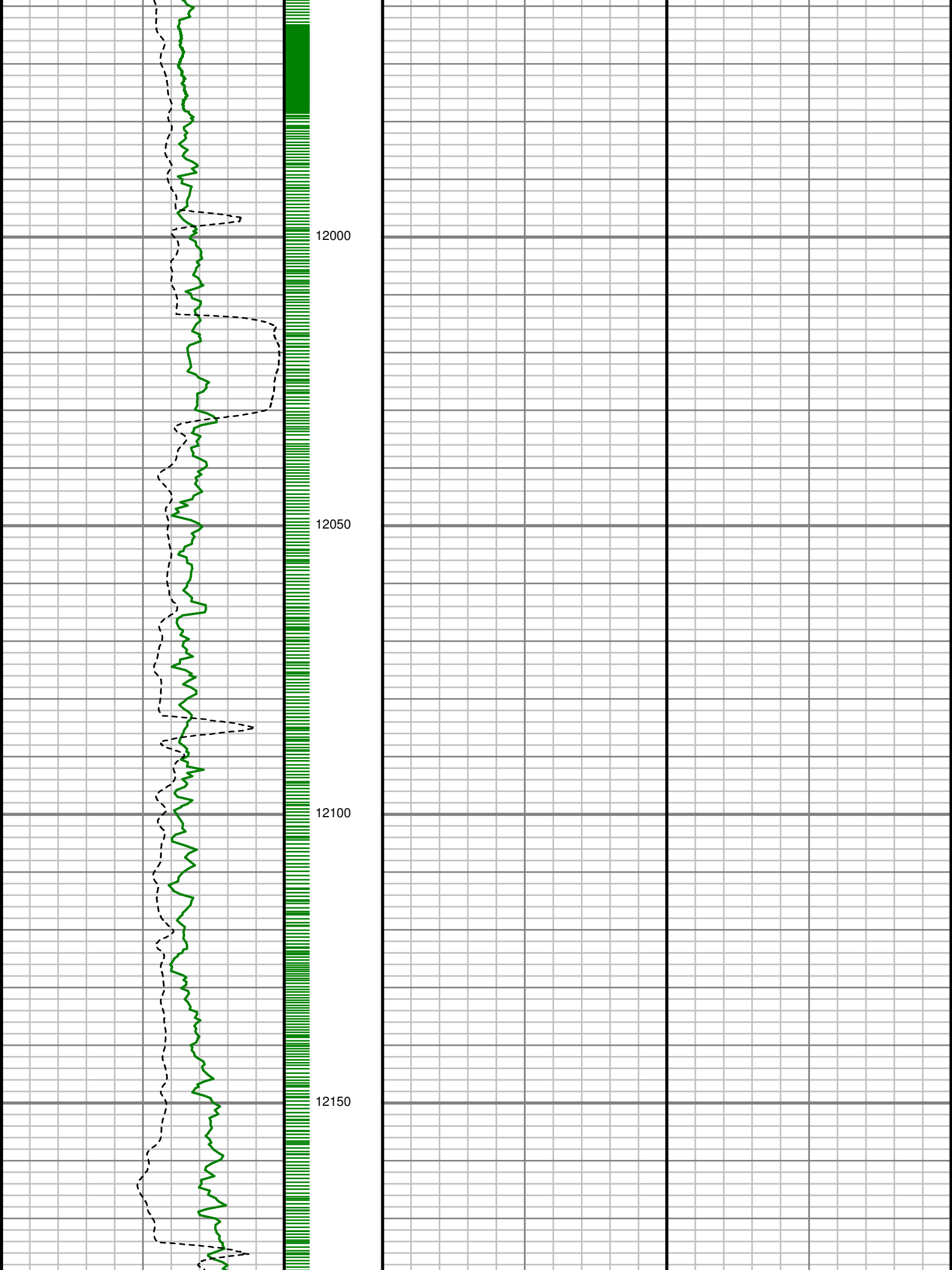


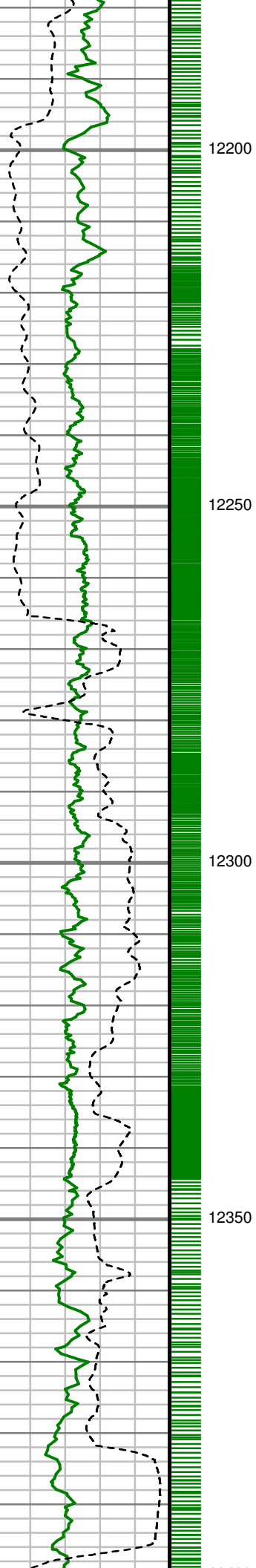


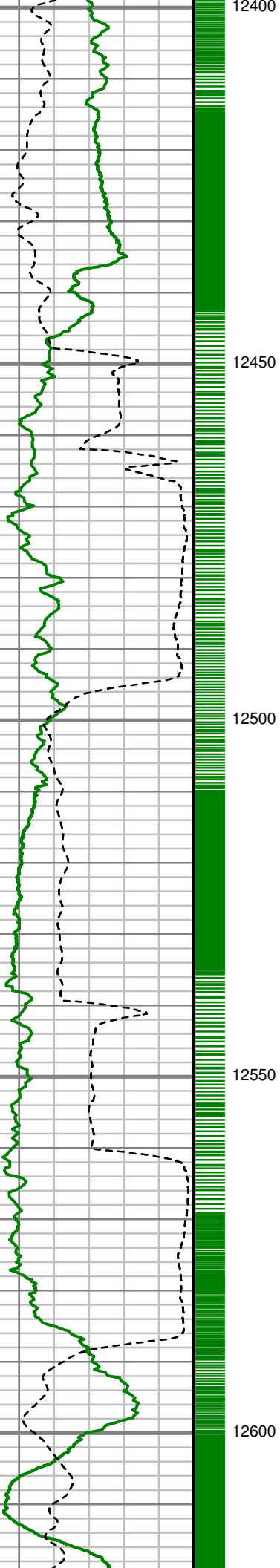


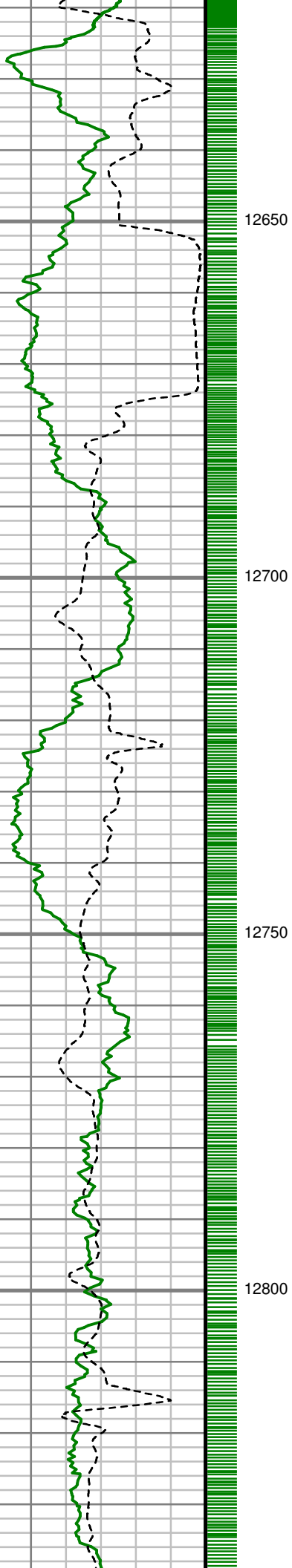




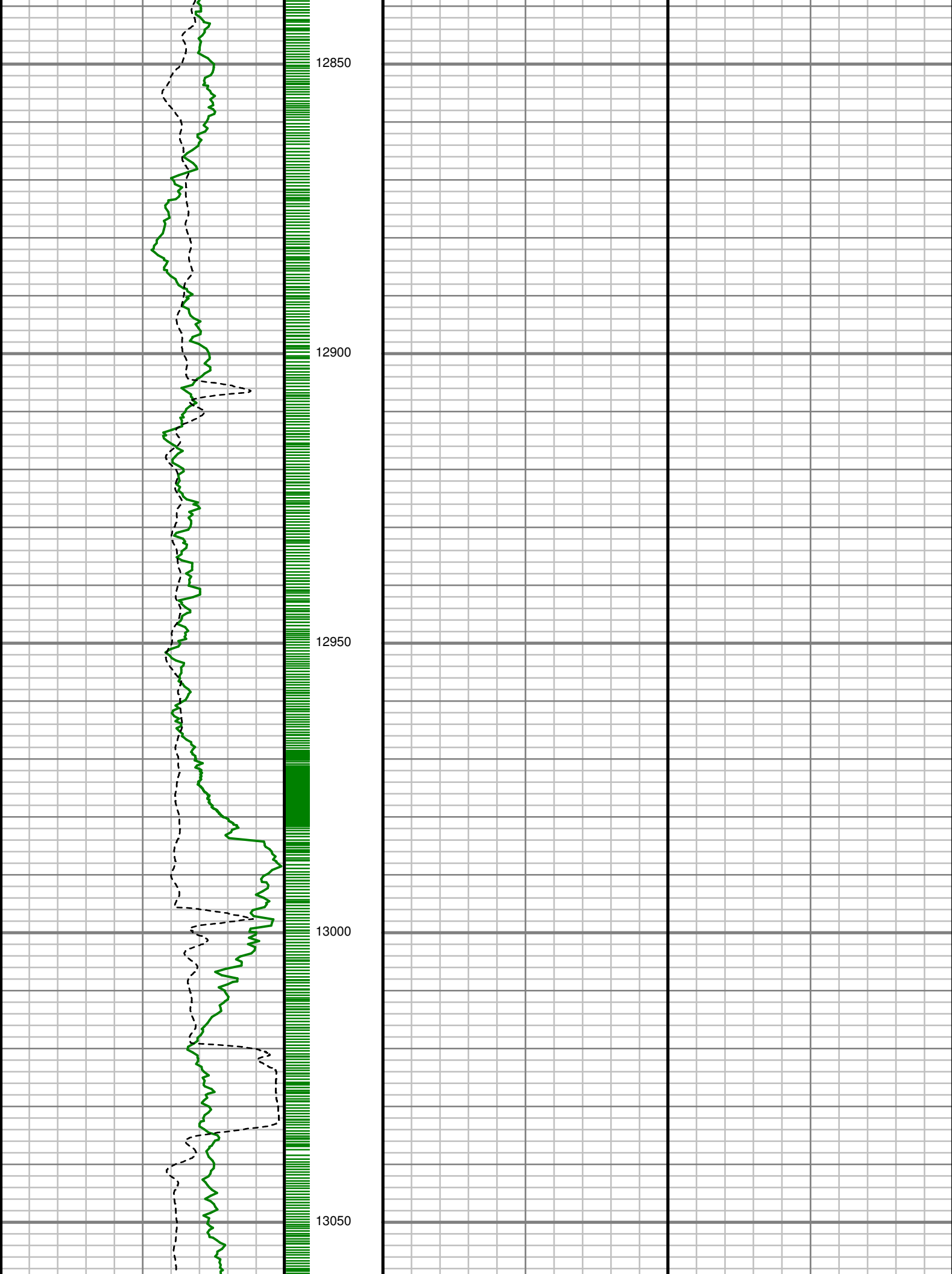


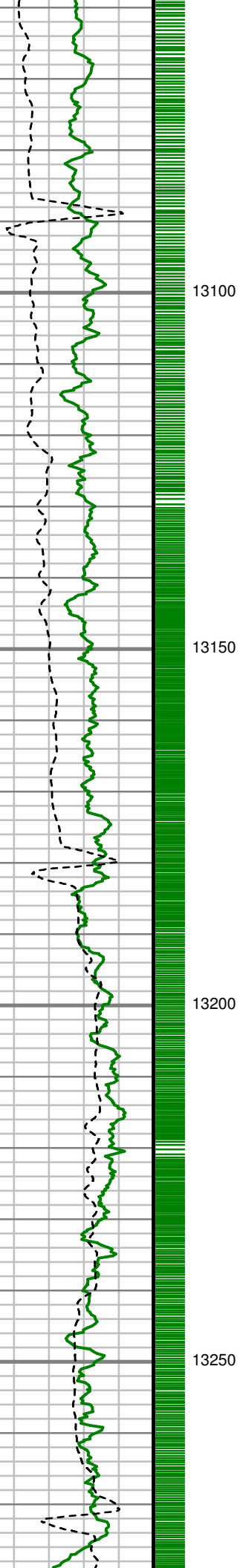


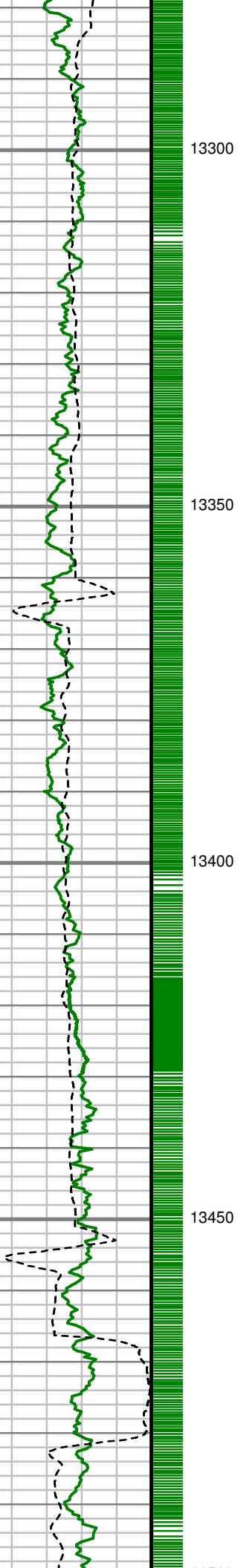


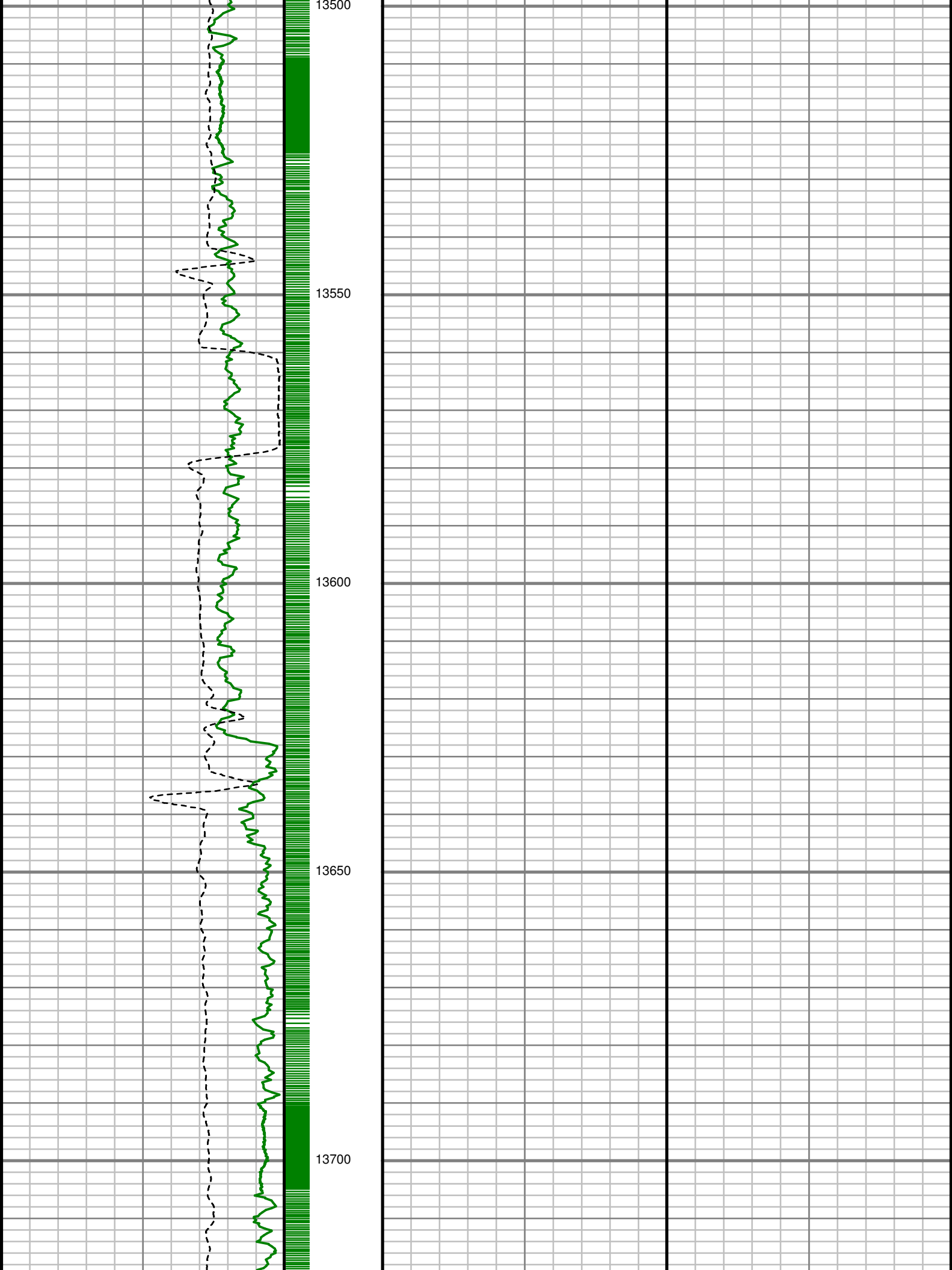


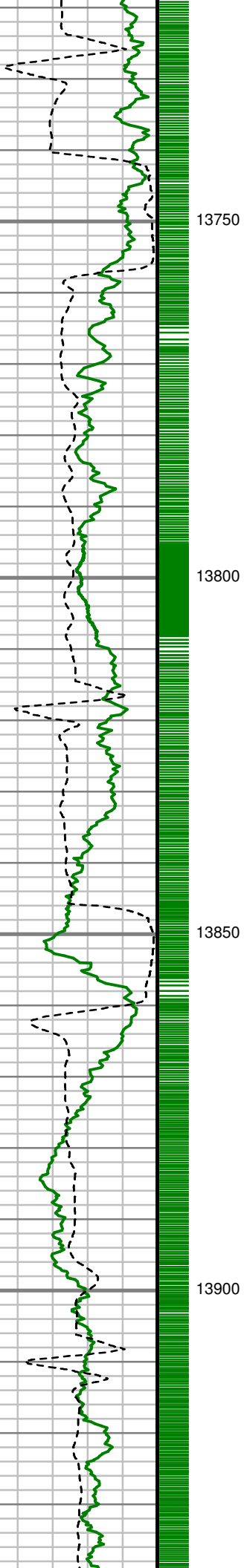


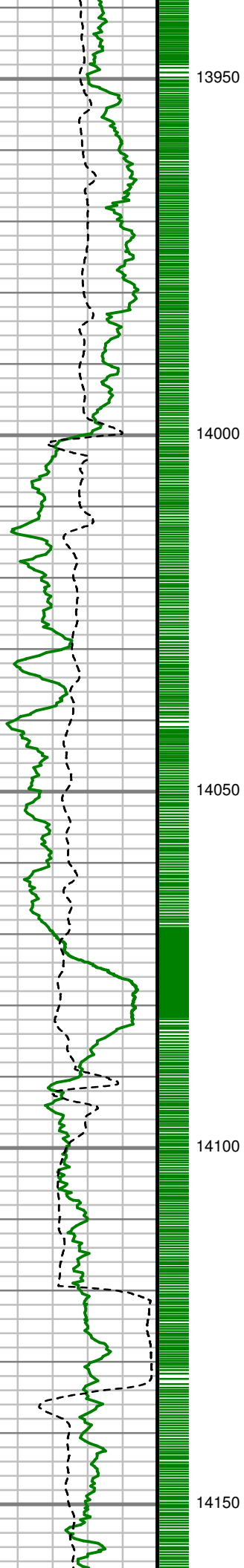


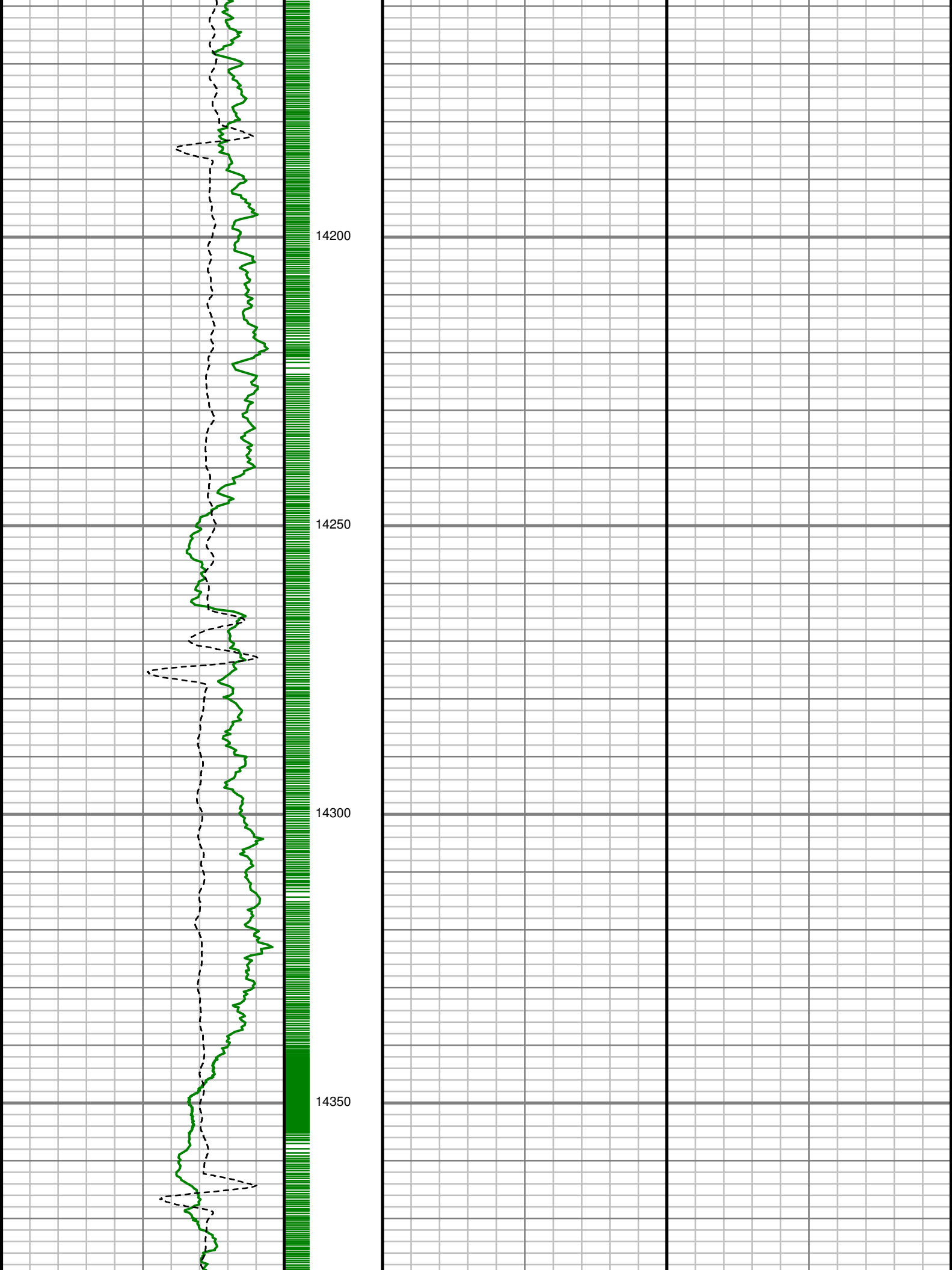


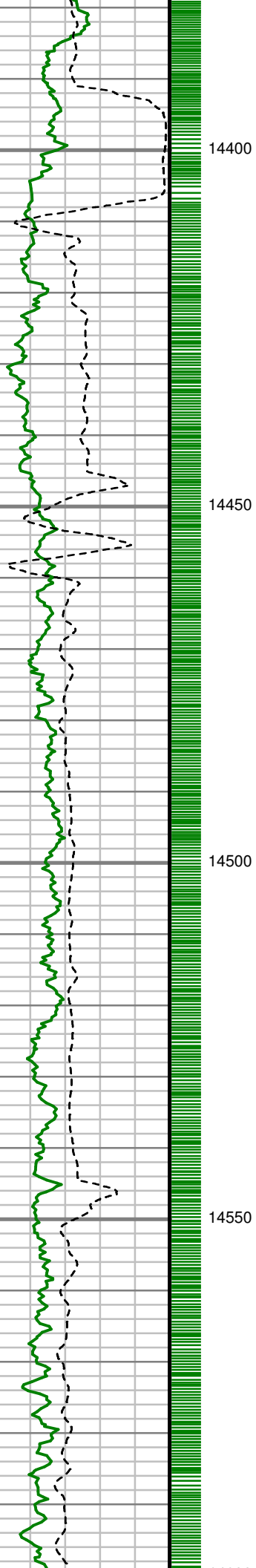




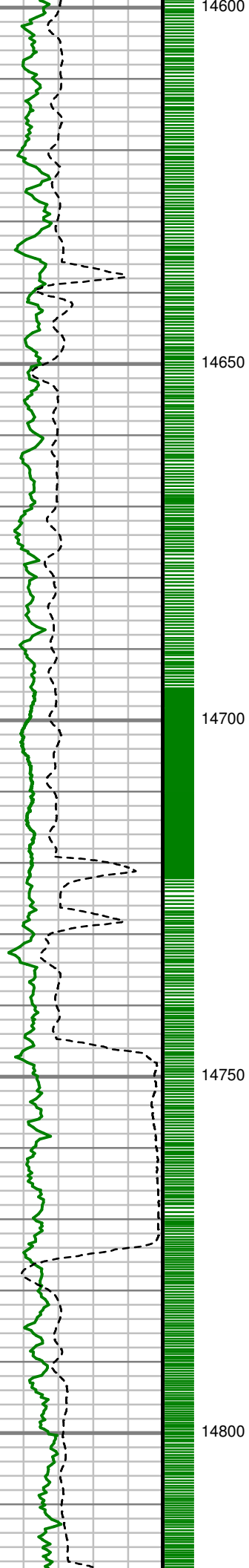


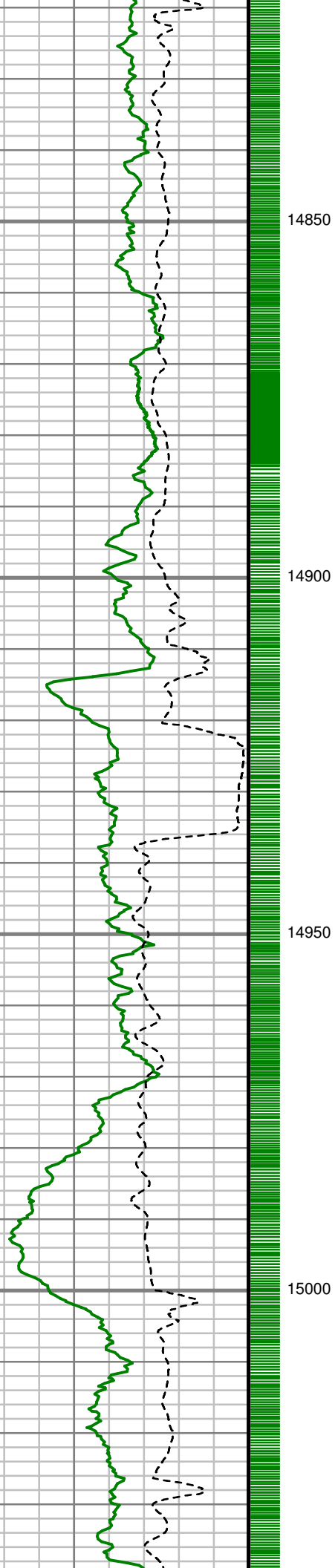


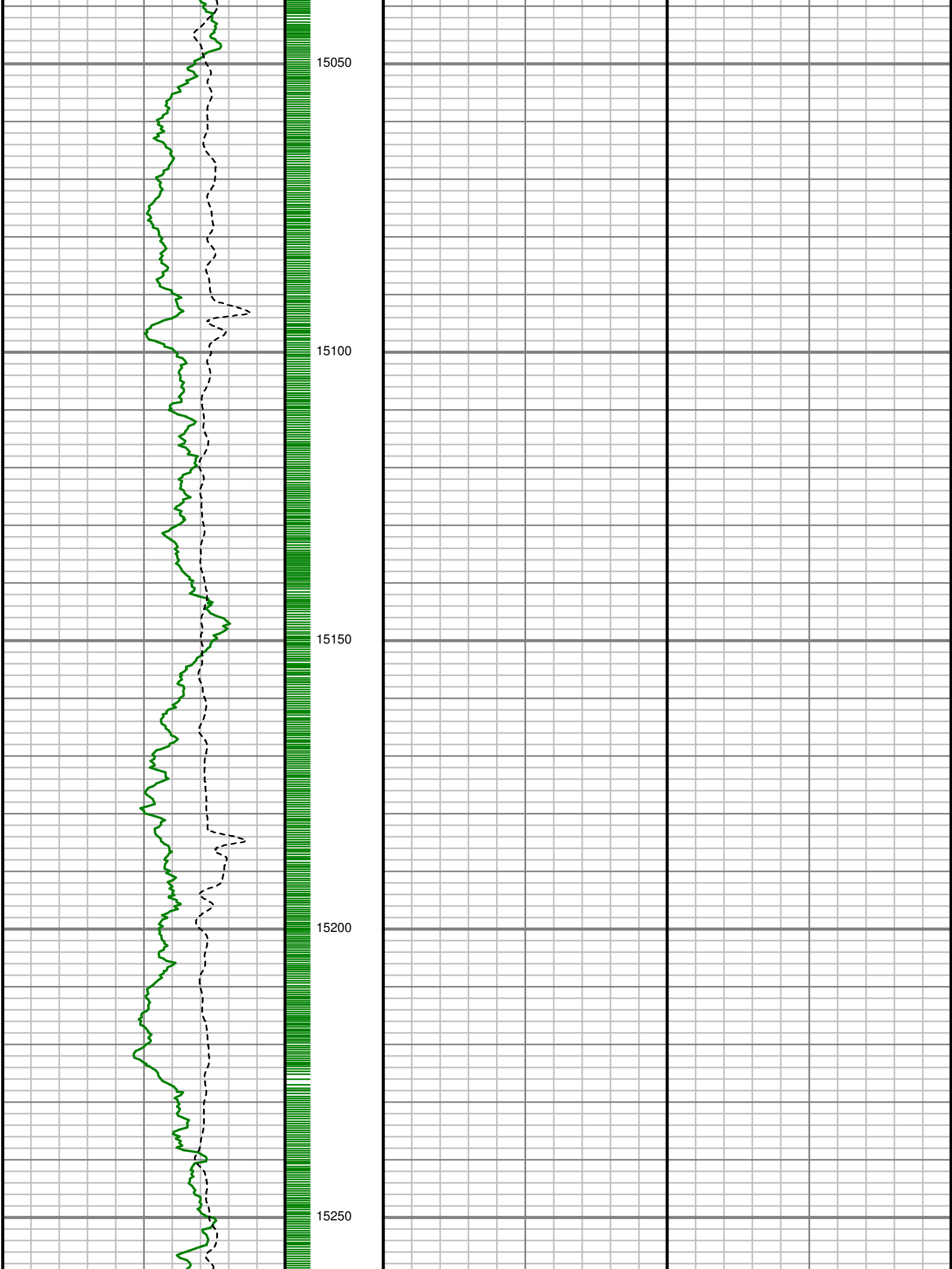


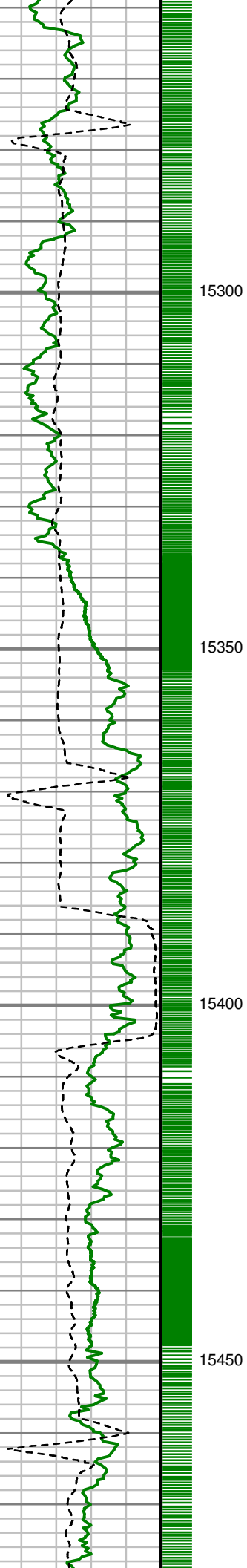


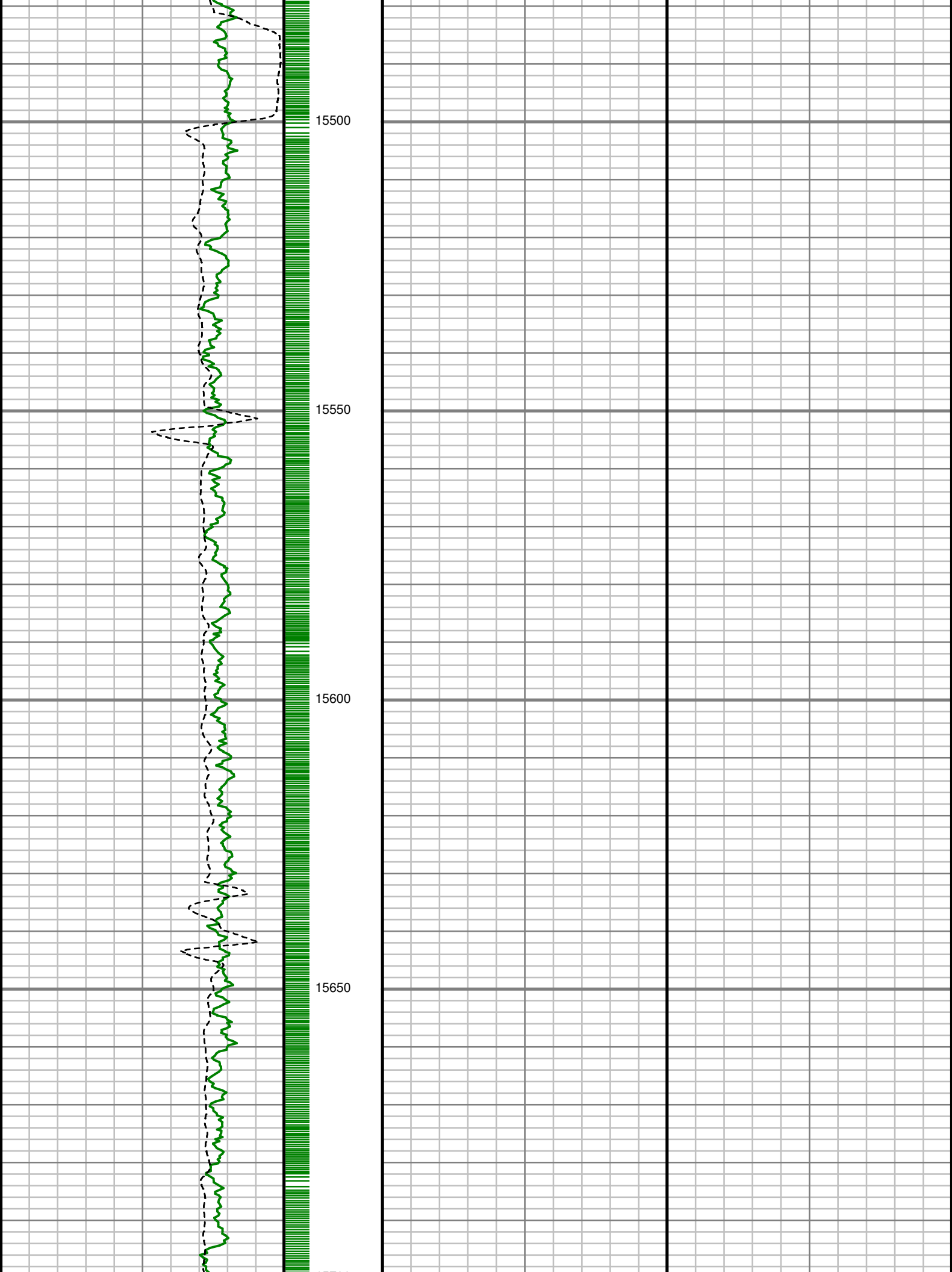


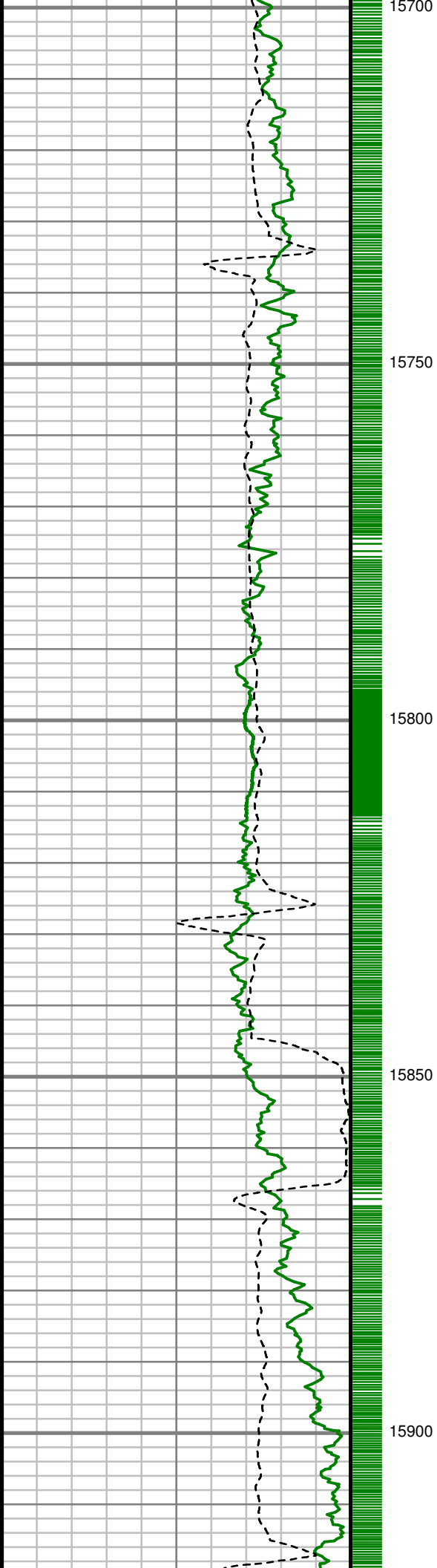


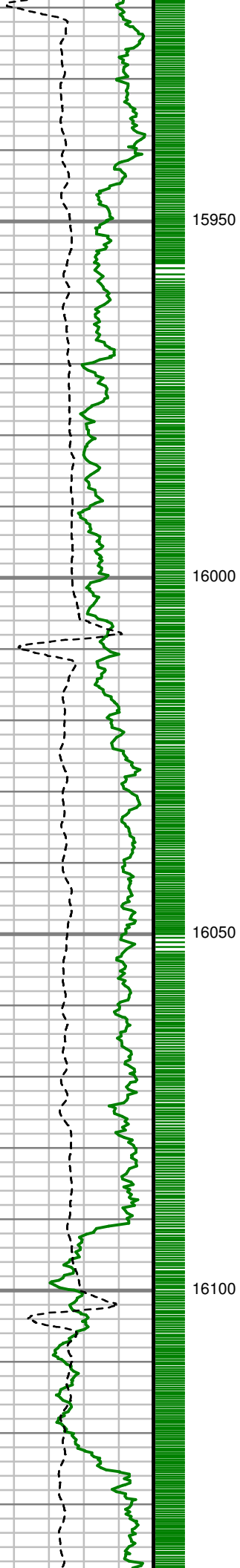


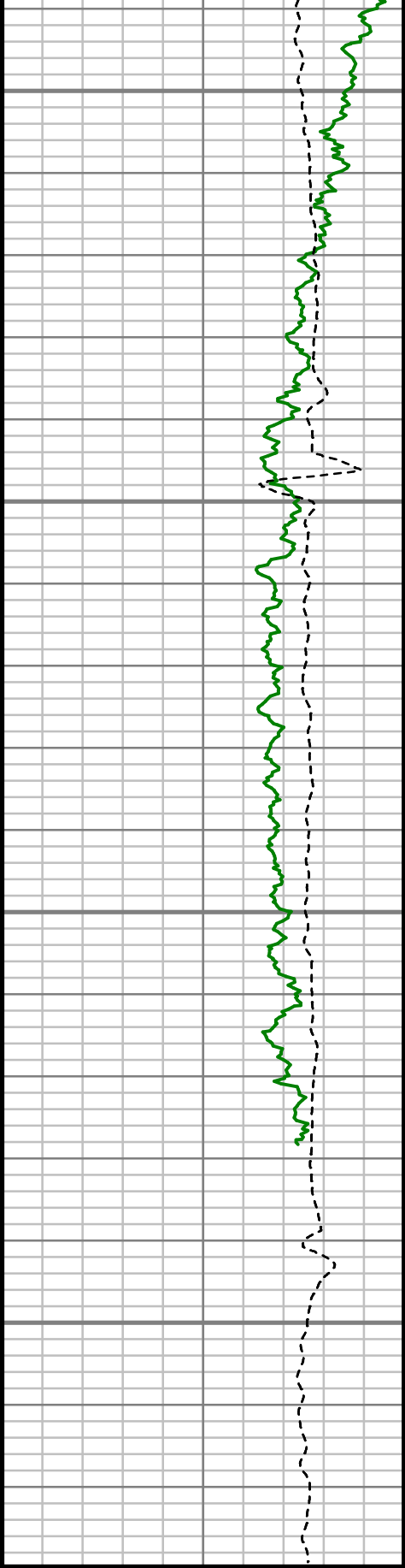












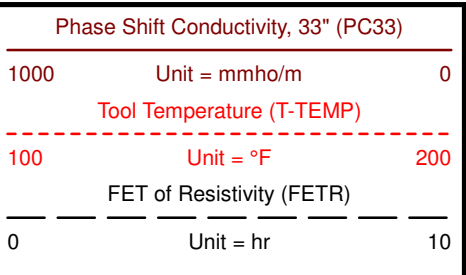
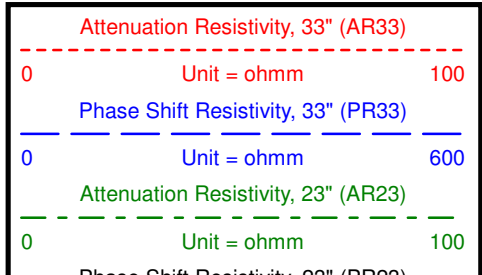
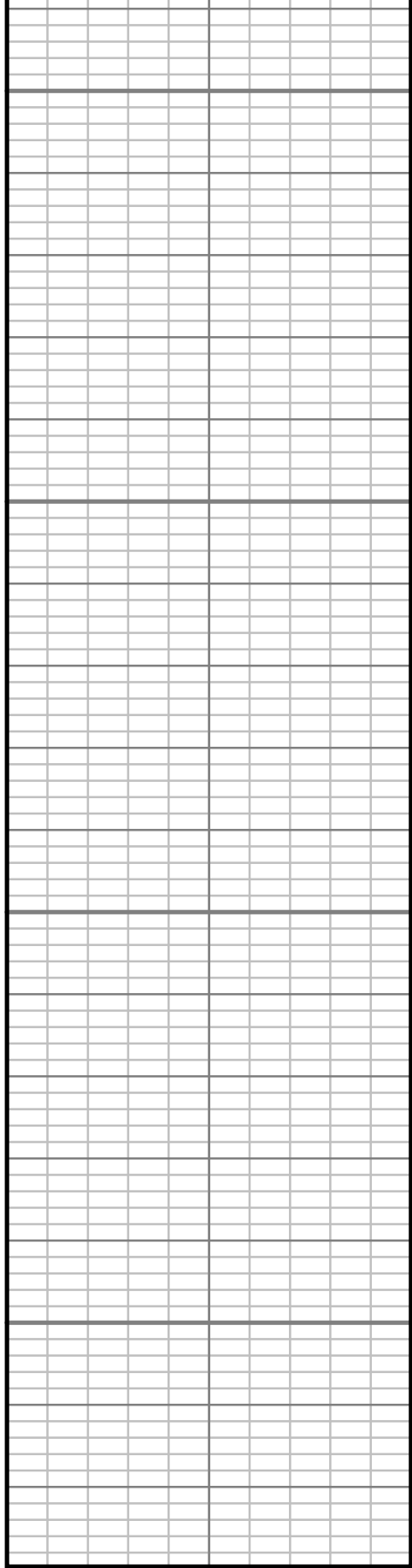
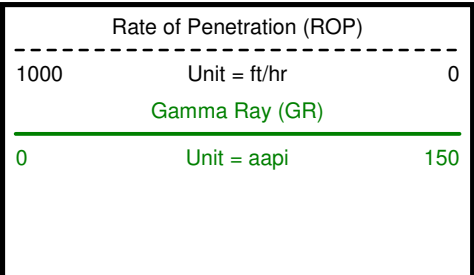
16150

16200

16250

16300

MEASURED DEPTH  
1,240 (ft)






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Phase Shift Resistivity, 23 (PR23)		
0	Unit = ohmm	400

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Scientific Drilling

GAMMA RAY

5" = 100' MD